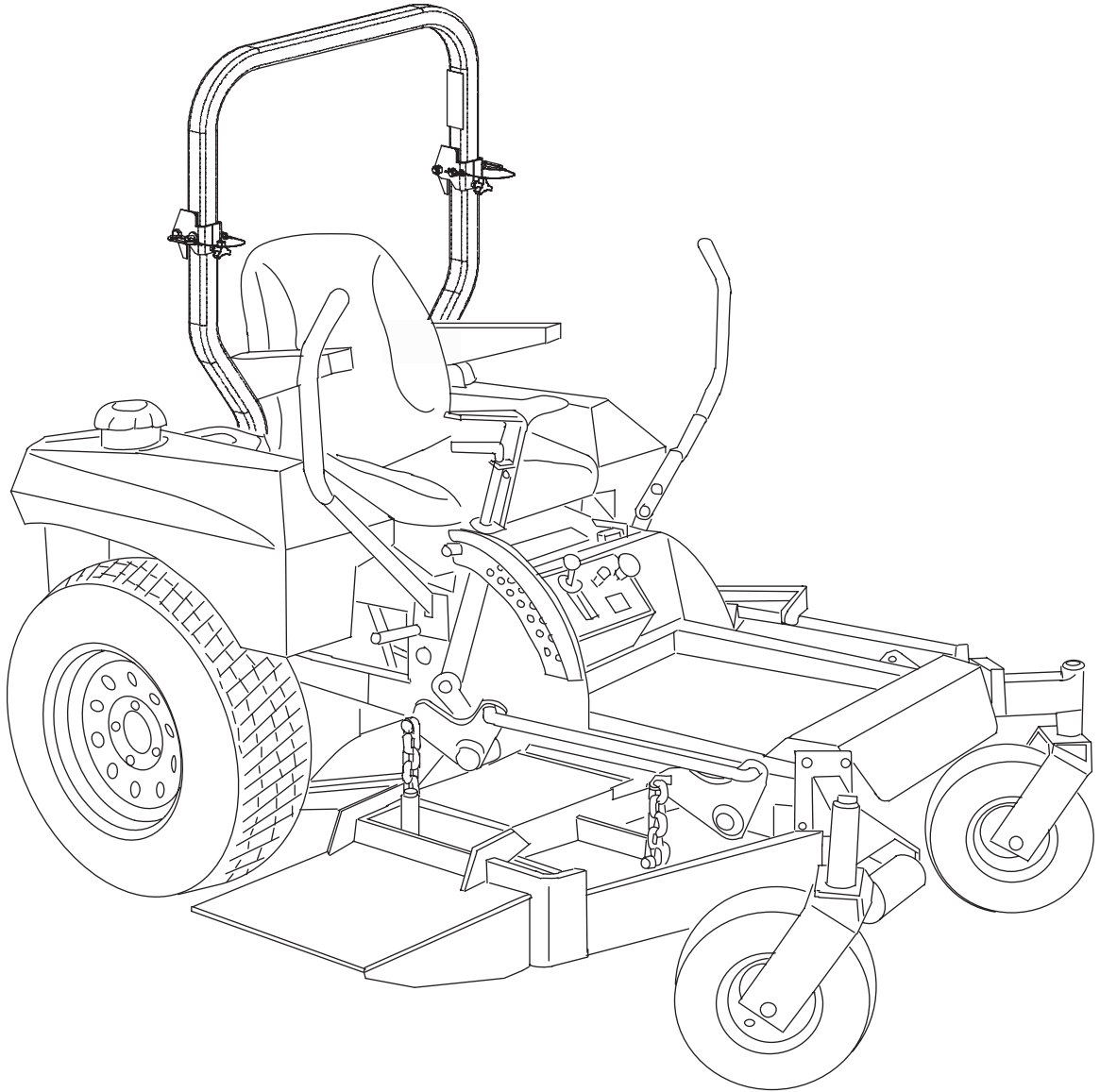


YAZOO/KEES



Operator Manual

ZMKW52212 / 968999660

ZMKH52252 / 968999661

ZMKH61252 / 968999662

ZMKW48172 / 968999730

ZMKW48192 / 968999779

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

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INTRODUCTION

Congratulations

Thank you for purchasing a Yazoo/Kees ride-on mower. This machine is built for superior efficiency to rapidly mow primarily large areas. A control panel easily accessible to the operator and a hydrostatic transmission regulated by steering controls both contribute to the machine's performance.

This manual is a valuable document. Read the contents carefully before using or servicing the machine. The following of instructions (use, service, maintenance) by all who operate this machine is important for the safety of the operator and others. It can also considerably increase the life span of the machine and increase its resale value.

If you sell your machine, be sure to give the operator's manual to the new owner.

Ensure that service and repair work are documented. A well-kept service journal reduces service costs for the maintenance and affects the machine's resale value. Please contact your dealer for more information.

General

In this operator's manual, left and right, backward and forward are used in relation to the machine's normal driving direction.

Continuous dedication to improve our products require that specifications and design are subject to change without notice.

Driving and Transport on Public Roads

Check applicable road traffic regulations before transporting on public roads. If the machine is transported, you must always use approved fastening equipment and ensure that the machine is well anchored. DO NOT operate this machine on public roadways.

Towing

Do not tow this machine, it may cause damage to the drive system.

Do not tow any trailers, etc. with this mower. They may jackknife or overturn causing damage to the mower and possible serious injury to the operator.

Operating

This machine is constructed only for mowing grass on lawns and even ground without obstacles such as stones or tree stumps. The machine can also be used for other tasks when equipped with special accessories provided by the manufacturer. Operating instructions for the accessories are provided with delivery. All other types of uses are incorrect. The manufacturer's directions concerning operation, maintenance, and repairs must be carefully followed.

Lawn mowers and all power equipment, can be potentially dangerous if used improperly. Safety requires good judgement, careful use in accordance with these instructions and common sense.

The machine must only be operated, maintained, and repaired by persons familiar with the machine's special characteristics and who are also knowledgeable about the safety instructions. Use only approved repair parts to maintain this machine.

Accident prevention regulations, other general safety regulations, occupational safety rules, and traffic regulations must be followed without fail.

Unauthorized modifications to the design of the machine may absolve the manufacturer from liability for any resulting personal injury or property damage.

INTRODUCTION

Good Service

Yazoo/Kees's products are sold only in specialized retail stores with complete service. This ensures that you as a customer receive only the best support and service. Before the product is delivered, the machine has, for example, been inspected and adjusted by your

retailer. See the certificate in the Service Journal in this operator's manual.

When you need spare parts or support in service questions, warranty issues, etc., please consult the following professional:

This Operator's Manual belongs to the machine with the manufacturing number:	Engine	Transmission

Manufacturing Number

The machine's manufacturing number can be found on the printed plate affixed to the left in the engine compartment. Stated on the plate, from the top are:

- The machine's type designation (I.D.).
- The manufacturer's type number (Model).
- The machine's serial number (Serial no.)

Please have the type designation and serial number available when ordering spare parts.

The engine's manufacturing number is stamped on one of the valve covers.

The plate states:

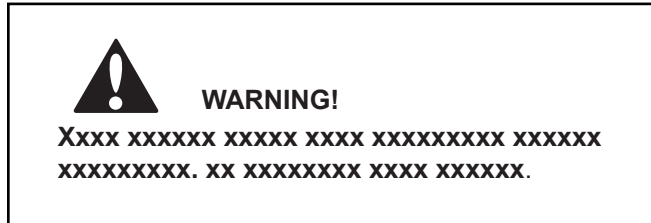
- The engine's model.
- The engine's type.
- Code

Please have these available when ordering spare parts.

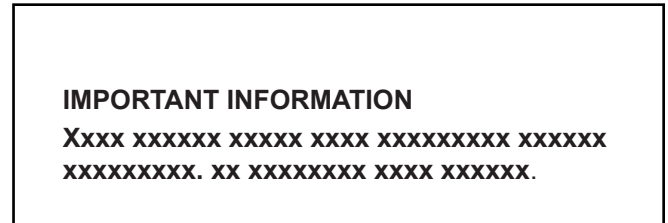
The Hydro Drive IZT gears have a barcode decal affixed to the rear of the gears.

SYMBOLS AND DECALS

These symbols are found on the machine and in the operator's manual.
Study them carefully so that you know what they mean.



Used in this publication to notify the reader of a risk of personal injury or death, particularly if the reader should neglect to follow instructions given in the manual.



Used in this publication to notify the reader of a risk of material damage, particularly if the reader should neglect to follow instructions given in the manual. Used also when there is a potential for misuse or misassembly.

R

Reverse

N

Neutral



Fast



Slow



Choke



Fuel



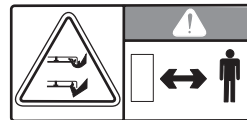
Warning!



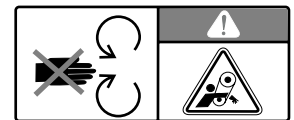
Parking Brake



CE conformity marking. Only for European market



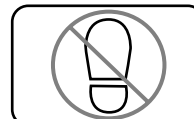
Warning! Rotating blades, keep away from the discharge deck



Do not touch parts



Battery acid is corrosive, explosive and flammable



Do not stand here



Noise emissions to the surroundings in accordance with the European Union's directive. The machine's emission is stated in the chapter TECHNICAL DATA and on the decals.

Only machines for European market



Use protective glasses



Use protective gloves

SYMBOLS AND DECALS

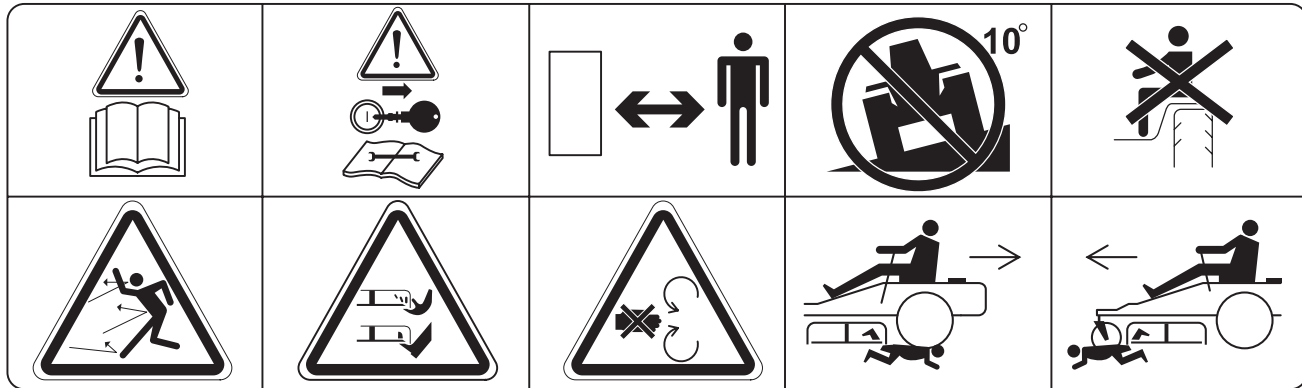
Read
Operator's
Manual

Shut off engine and
remove key before
performing any
maintenance or repair work

Keep a safe
distance from
the machine

Use on slopes
no greater
than 10°

No passengers



Whole body
exposure to
thrown objects

Severing of fingers
and toes

Do not open or
remove safety
shields while
engine is running

Careful backing up,
watch for other
people

Careful going
forward, watch for
other people



Moving sharp blades under cover

SAFETY

These instructions are for your safety. Read them carefully.

IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

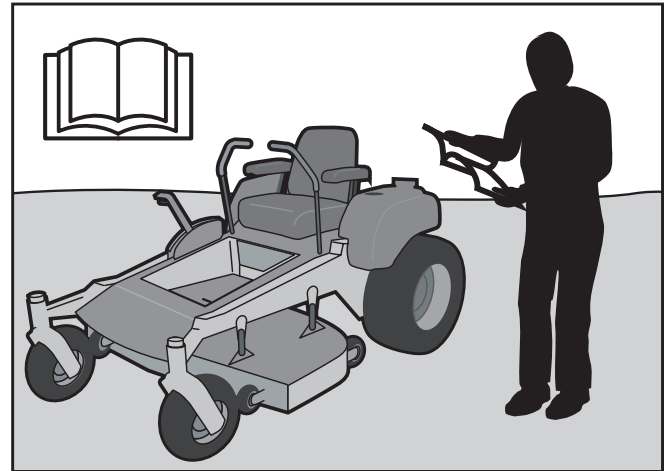
General Operation

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of rocks, toys, wire and such objects that could be picked up and thrown by the blades.
- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- Never carry passengers. The machine is only intended for use by one person.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge guard, or other safety devices in place and working.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.
- Operate machine only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.



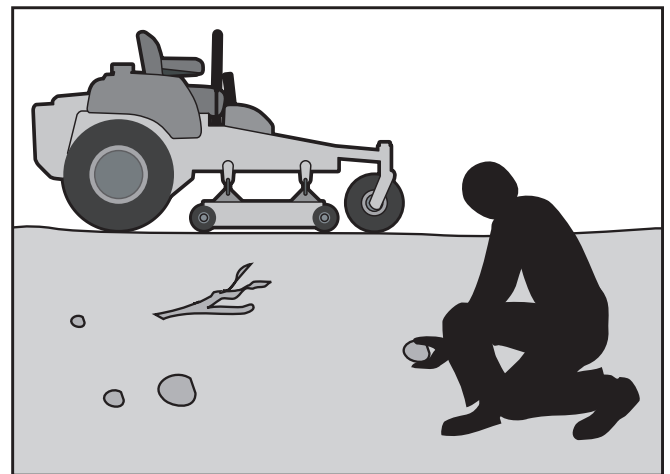
WARNING!

This symbol means that important safety instructions need to be emphasized. It concerns your safety.



8011-512

Read the operator's manual before starting the machine



8011-513

Clear the area of objects before mowing

SAFETY

- Use extra care when loading or unloading the machine into a trailer or truck.
- Always wear eye protection when operating machine.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- Anyone who operates this machine must first read and understand this Operation Manual. Local laws may regulate the age of the user.
- Keep machine free of grass, leaves or other debris buildup which can touch hot exhaust or engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause buildup to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.



8011-520

Never take passengers



WARNING!

Engine exhaust and certain vehicle components contain or emit chemicals considered to cause cancer, birth defects, or other reproductive system damage. The engine exhaust contains carbon monoxide, which is a odorless, colorless, poisonous gas. Do not use the machine in enclosed spaces.

SAFETY

Personal Safety Equipment

- Make sure that you have first aid equipment close at hand when using the machine. Never use the machine when barefoot.
- Always wear protective shoes or boots, preferably with steel toe caps.
- Always wear approved protective glasses or a full visor when assembling or driving.
- Always wear gloves when handling the blades.
- Never wear loose clothing that can get caught in moving parts.
- Use ear protectors to avoid damage to hearing.

Slope Operation

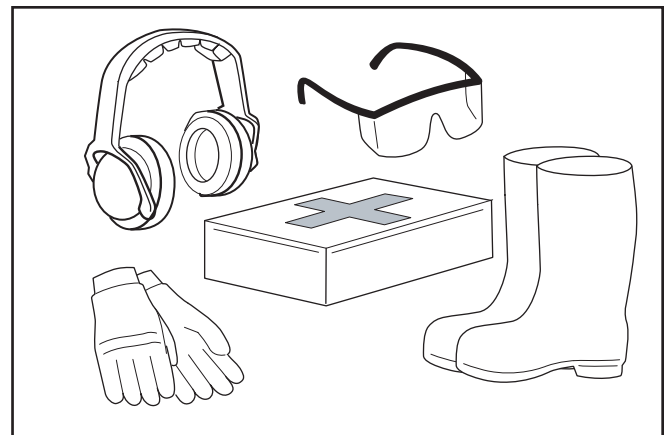
Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

- Mow up and down slopes (10 degrees maximum), not across.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine.
- Choose a low ground speed so that you will not have to stop while on the slope.
- Do not mow on wet grass. Tires may lose traction.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.
- Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine. Do not use on steep slopes.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not mow near drop-offs, ditches, or embankments. The machine could suddenly roll over if a wheel is over the edge or if the edge caves in.



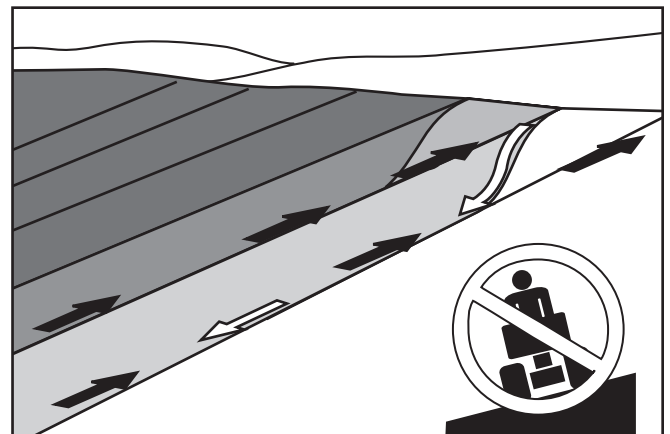
WARNING!

When using the machine, approved personal protective equipment (shown in illustrations) shall be used. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your retailer for help in choosing the right equipment.



8011-670a

Personal protective equipment



6003-004-01

Mow up and down, not side to side



WARNING!

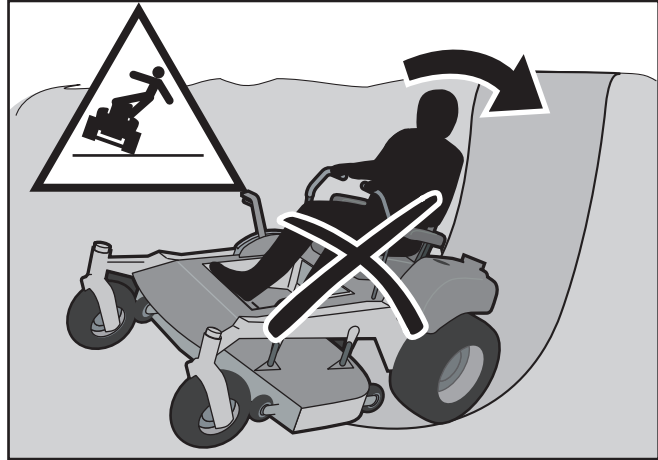
Do not drive up or down hills with slopes greater than 10 degrees. And do not drive across any slopes.

SAFETY

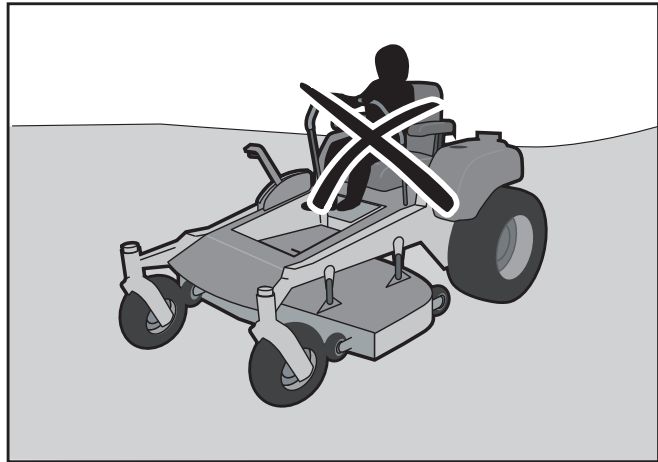
Children

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.



Be extra cautious when driving on slopes



Never allow children to operate the machine



Keep children away from work area

SAFETY

Safe Handling of Gasoline

To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.

Extinguish all cigarettes, cigars, pipes, and other sources of ignition.

Use only approved gasoline container.

- Never remove gas cap or add fuel with the engine running. Allow engine to cool at least two (2) minutes before refueling.
- Never fuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliances.
- Before you begin refueling, minimize the risk of static electricity by touching a metal surface.
- Never fill containers inside a vehicle or on a truck or trailer bed with plastic liner. Always place containers on the ground away from your vehicle when filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.
- Do not start the engine near spilled fuel.
- Never use gasoline as a cleaning agent.
- If leaks arise in fuel system, engine must not be started until problem has been resolved.
- Check the fuel level before each use and leave space for the fuel to expand, because the heat from the engine and the sun may otherwise cause the fuel to expand and overflow.



WARNING!

The engine must not be started when the driver's floor plate or any protective plate for the mower deck's drive belt is removed.



8011-516

Never fill the fuel tank indoors



WARNING!

The engine and the exhaust system, become very hot during operation.

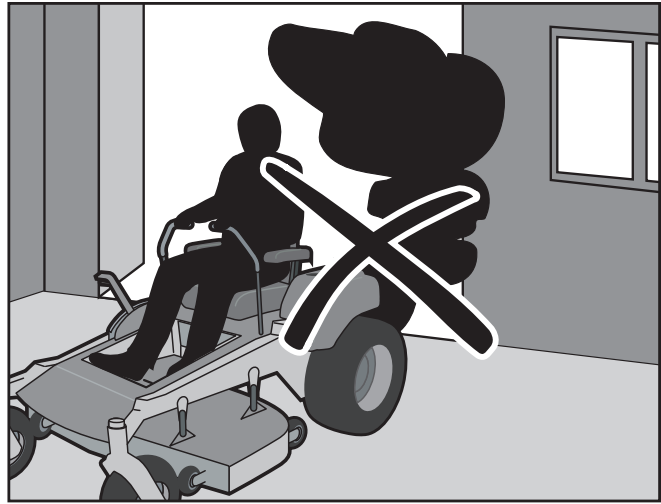
Risk for burns if touched.

Allow engine and exhaust system to cool at least two (2) minutes before refueling.

SAFETY

General Maintenance

- Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.
- Never make any adjustments or repairs with the engine running.
- Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.
- Maintain or replace safety and instruction labels, as necessary.
- Do not modify safety equipment. Check regularly to be sure it works properly. The machine must not be driven with defective or unmounted protective plates, protective cowlings, safety switches, or other protective devices.
- Do not change the settings of governors and avoid running the engine with overly high engine speeds. If you run the engine too fast, you risk damaging the machine components.
- Be very careful when handling battery acid. Acid on skin can cause serious corrosive burns. If you spill battery acid on your skin, rinse immediately with water.
- Acid in the eyes can cause blindness, contact a doctor immediately.
- Be careful when servicing the battery. Explosive gases form in the battery. Never perform maintenance on the battery when smoking or near open flames or sparks.
- The battery can explode and cause serious injury/damage.



8011-515

Never drive the machine in an enclosed space



**Use protective glasses
for maintenance work.
refueling.**

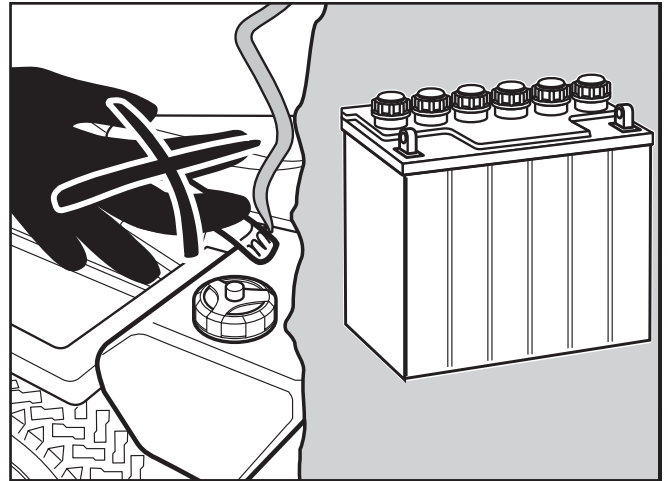


WARNING!

The battery contains lead and lead compounds, chemicals that are considered to cause cancer, birth defects, and other reproductive system damage. Wash your hands after handling the battery.

SAFETY

- Ensure that nuts and bolts, especially the fastening bolts for the blade attachments, are properly tightened, torqued and that the equipment is in good condition.
- Do not modify safety equipment. Check regularly to be sure it works properly. The machine must not be driven with defective or unmounted protective plates, protective cowlings, safety switches, or other protective devices.
- Do not change the settings of governors and avoid running the engine with overly high engine speeds. If you run the engine too fast, you risk damaging the machine components.
- Sparking can occur when working with the battery and the heavy cables of the starter circuit. This can cause battery explosion, fire or eye injury. Sparking in this circuit can not occur after the chassis cable (normally negative, black) is removed from the battery.



6003-009

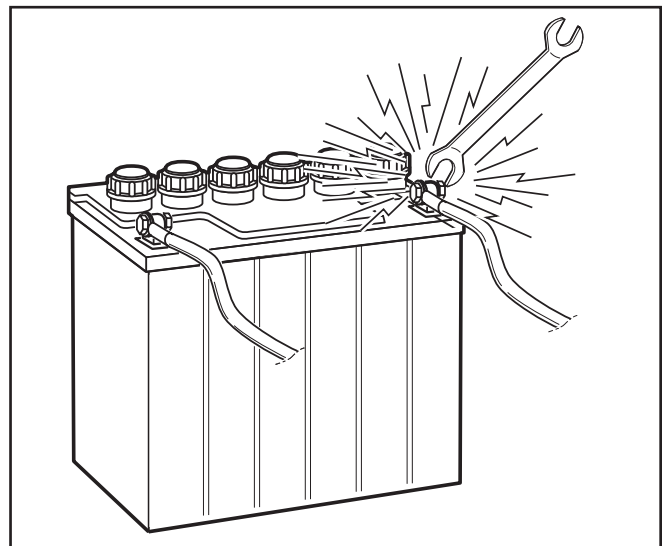
Do not smoke when performing maintenance on the battery. The battery can explode and cause serious injury/damage.



WARNING!

Avoid electrical sparking and its consequences by the following routines:

- Use protective goggles.
- Ensure that the fuel filler cap is mounted tightly and no flammable substances is stored in an open vessel.
- Never work with the starter circuit if there is spilled fuel.
- Disconnect the chassis cable from the battery first and reconnect it last.
- Do not make a bridge short circuit across the starter relay to run the starter.
- Never use the machine indoors or in spaces lacking proper ventilation. The exhaust fumes contain carbon monoxide, an odorless, poisonous, and lethal gas.
- Stop and inspect the equipment if you run over or into anything. If necessary, make repairs before starting.
- Never make adjustments with the engine running.
- The machine is tested and approved only with the equipment originally provided or recommended by the manufacturer. Only use approved repair parts for the machine.



8009-728

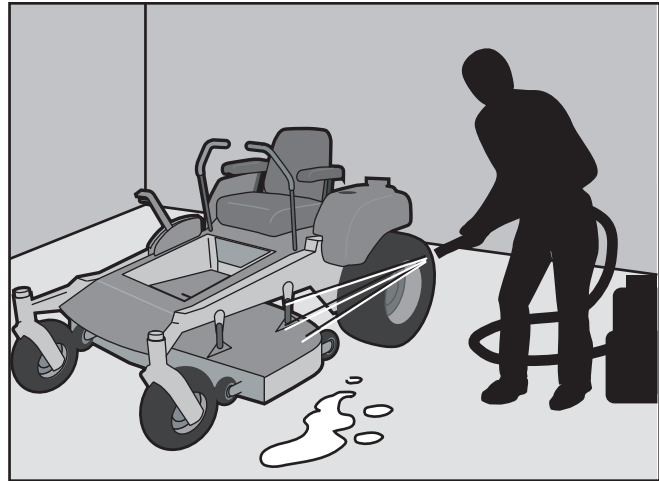
Risk of sparking

SAFETY

- The blades are sharp and can cause cuts and gashes. Wrap the blades or use protective gloves when handling them.
- Check the parking brake's functionality regularly. Adjust and service as necessary.
- The mulch blades should only be used in familiar areas when higher quality mowing is desired.
- Reduce the risk of fire by removing grass, leaves, and other debris that may have accumulated on the machine. Allow the machine to cool before putting it in storage.
- Regularly clean deck and underside of deck, avoid spraying engine and electrical components with water.

Transport

- The machine is heavy and can cause serious crushing injuries. Be extra cautious when it is loaded on or unloaded from a vehicle or trailer.
- Use an approved trailer to transport the machine. Activate the parking brake, turn off the fuel supply, and fasten the machine with approved fastening devices, such as bands, chains, or straps, when transporting.
- Do not operate this machine on public roadways.
- Check and abide by local traffic regulations before transporting the machine on any road.
- Do not tow this machine, it may cause damage to the drive system.
- Do not tow any trailers, etc. with this mower. They may jackknife or overturn causing damage to the mower and possibly serious injury to the operator.



8011-515

Clean the machine regularly



WARNING!

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious injury. If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

IMPORTANT INFORMATION

The parking brake is not sufficient to lock the machine in place during transport. Ensure that the machine is well fastened to the transport vehicle. Always reverse the machine onto the transport vehicle to avoid tipping it over.

SAFETY

Roll over Protection system (ROPS)

The ROPS increases the basic weight of the unit by 42 lbs/19 kg. The ROPS on the US units are standard, on the European units is the ROPS an accessory.

- Do not use ROPS as a lifting, attaching or anchoring point.
- Do not use ROPS for wrecking or towing.
- Do not exceed Max GVW: 2822 lbs/1283 kg.
- Read machine operator's manual before each use.
- Securely fasten your seat belt if the unit has a ROPS.
- Where possible, avoid operating the unit near ditches, embankments and holes.
- Reduce speed when turning, crossing slopes and on rough, slick or muddy surfaces.
- Stay off slopes too steep for safe operation.
- Watch where you are going, especially at row ends, on roads and around trees.
- Do not permit others to ride.
- Operate the mower smoothly - no jerky turns, starts or stops.
- When mower is stopped, set brakes securely and use park brake.
- If any part of ROPS is damaged, the entire ROPS must be replaced.
- Check all bolts including seat belt for correct torque before each use.
- Check ROPS structure for damage before each use.
- ROPS bar is NOT intended for use in sub zero temperatures.

Customer responsibilities

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your mower.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

A spark arrester for the muffler is available through your authorized Yazoo/Kees dealer.



WARNING!

The structures capability may be impaired by structural damage if overturned, or alteration occurs. If any of these conditions take place, the total structure **MUST** be replaced.



WARNING!

This mower is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, bush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

SETUP AND ADJUSTMENTS

Setup

Uncrate machine.

ROPS Assembly Components

- 1 - Top loop
- 1 - Left side post
- 1 - Right side post
- 1 - Hardware bag
 - 2 - Latch Pins w/lanyard
 - 6 - Cap screws
 - 6 - Centerlock nuts
 - 2 - Knobs

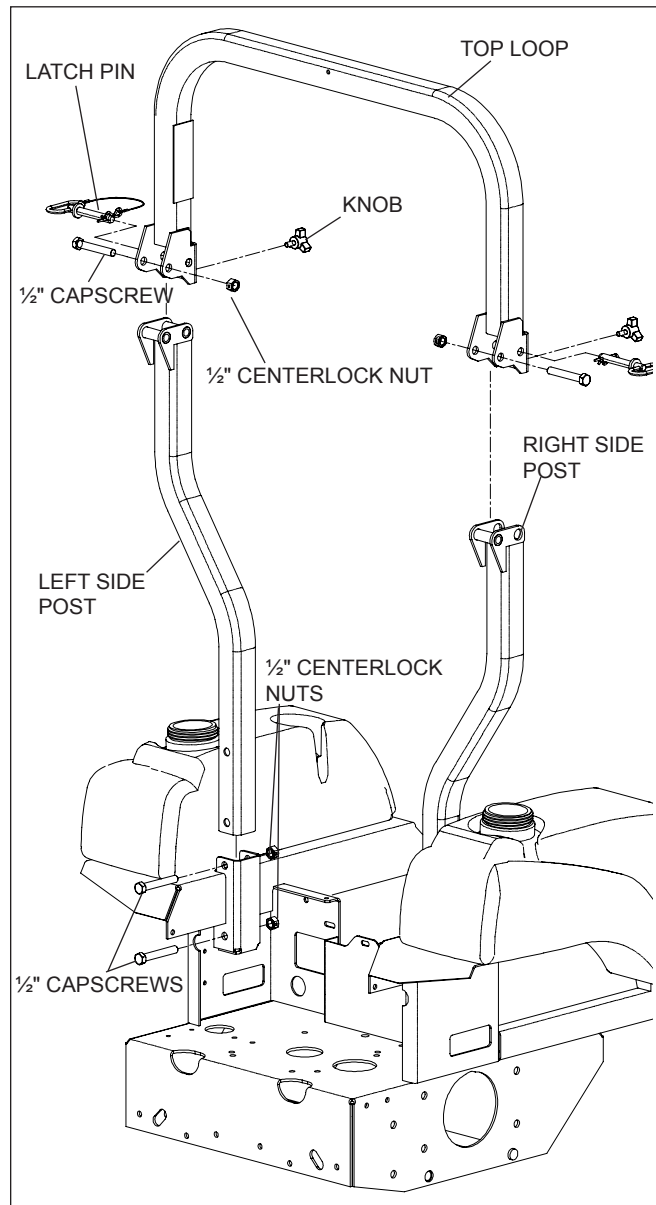
(all hardware Grade 5).

1. Remove roll bar and parts bag from the box.
2. Install roll bar side posts.
 - a. Locate the LEFT and RIGHT side posts.
 - b. Slide the left side post into the left side receiver on the frame, do the same on the right side.
 - c. Using the cap screws, two per post, align the holes in the side post with the frame receiver. Install the centerlock nuts finger tight to the side post bolts.
3. Install roll bar top loop.
 - a. Align the holes of the top loop with the left and right side posts.
 - b. Slide the latch pins through the front hole on the left and right side to connect the top loop to the side posts and secure with the hairpin.
 - c. Insert cap screws through the rear hole on the left and right side. Install the centerlock nuts finger tight.
4. Torque all hardware to 80 ft./lbs. (110 N•m).
5. Install and tighten knobs against the side post.
6. If ROPS has been installed correctly, the unit should fold to the rear of the machine when not in use.



WARNING!

No settings or adjustments are to be made unless: Engine is stopped, key has been removed, park brake is on and battery cable removed from battery.



SETUP AND ADJUSTMENTS

Tires

Mount rear drive wheels using the lug nuts installed on the hubs.

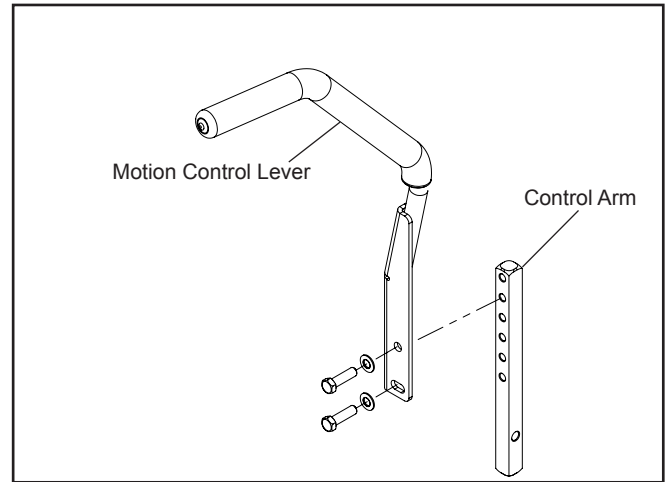
Check the tire pressure in all four tires. All tires should be 15 psi.

Control Arms

Remove top bolt in control arm and loosen bottom bolt, rotate the control levers to the upright position. Align the levers so they are even in the neutral position. Reinstall hardware and tighten.

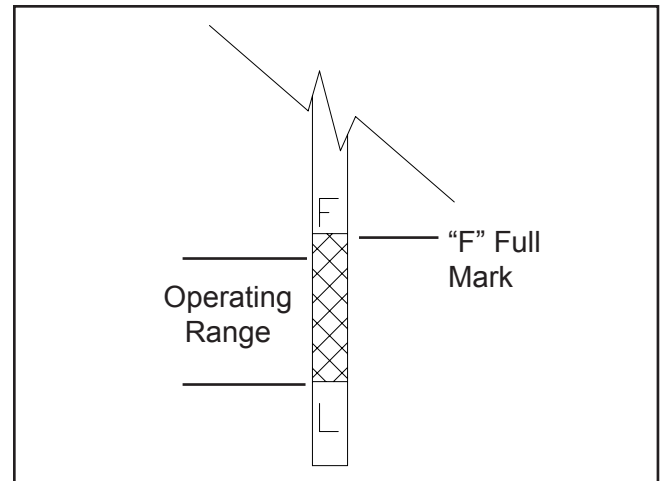
Seat Install

1. Remove seat assembly from the crate.
2. Remove the four nuts from the bottom of the seat. Retain for use later.
3. Align the seat bottom with the holes in the seat frame. Place seat on top of the seat frame and secure with the four nuts or knobs removed in Step 2.
4. Connect the wire harness from the seat to the frame harness.



Engine Oil

Check engine oil with dip stick. Add if needed per the engine manufactures specifications. See engine manual for oil type and filling specifications.

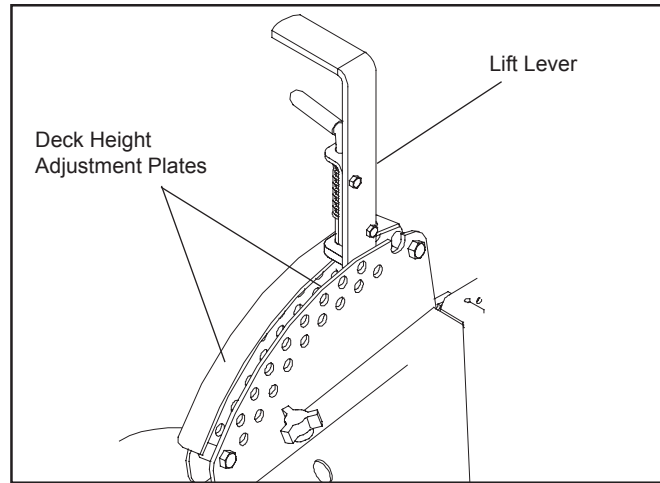


SETUP AND ADJUSTMENTS

Cutting Height

1. Stop the mower and disengage the blades.
2. Raise the deck height lever to the transport position.
3. Remove the height adjustment pin and place it in the desired cutting height hole. Lower the lift lever down onto pin.

NOTE: Anti-scalp rollers must be in the proper position for maximum deck flotation. See the decal on the front deck for proper settings.



Mower Deck Leveling

1. Position machine on a flat surface. Preferably level concrete.
2. Check the tire pressure in all four tires. Inflation should be 15 psi.
3. Place 2x4s on edge under the cutting deck from front to rear and lower the deck down onto 2x4s.
4. Adjust the four upper chain bolts to the center slots in the deck lift arms.

NOTE: Make sure the lift blocks under the frame are tightly bolted to the frame.

5. Check the chains for equal tension. If unequal adjust upper chain bolt in slot.
6. Place the deck in the 5" cutting height and measure from the cutting edge of the blade to the flat level surface to check the deck cutting height.

Throttle Lever Tension

Stop engine and remove key.

Throttle lever tension may be adjusted by tightening the pivot bolt. The pivot bolt secures the throttle arm to the mounting bracket which is mounted to the console. Access is gained by removing the console.

SETUP AND ADJUSTMENTS

Motion Control Linkage Adjustment

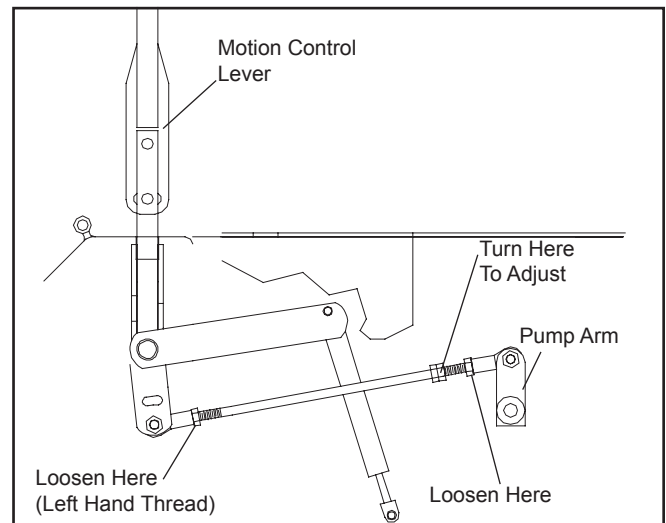
Adjustment must be made with the rear wheels rotating. Raise the rear of the machine and block it up so the wheels are free to rotate.

1. Tilt seat forward and remove the seat rod so the seat rotates forward onto the frame.
2. Place a 2x4 board between the foot plate and the center of the seat to engage the seat safety switch.
3. Loosen the nuts directly behind each ball joint on both rods that connect the pump arm to the motion control assemblies.
4. Start the engine. The park brake must be engaged and the motion control levers in the neutral slots to start the engine. Run the engine approximately half throttle.
5. Release park brake to allow the wheels to rotate.
6. Begin with either side and put the motion control lever into the neutral position.
7. Adjust the motion control linkage by rotating the double nuts in the proper direction until the wheel stops rotating.
8. Move the motion control lever forward and into the neutral position and into the neutral slot. The wheel must be stopped completely at this point.
9. Do the same in reverse and release the lever. The lever should return to neutral on its own.
10. Run engine full throttle to make sure wheels do not rotate. Readjust if any rotation occurs.
11. Repeat the whole process for the opposite side and tighten the nuts against the ball joints.
12. Turn machine off.
13. Reinstall the seat rod and check the wiring harness to the seat safety switch for a good connection and return the seat to the normal position.



CAUTION!

Keep hands, feet and clothing away from rotating tires.



Park Brake Adjustment

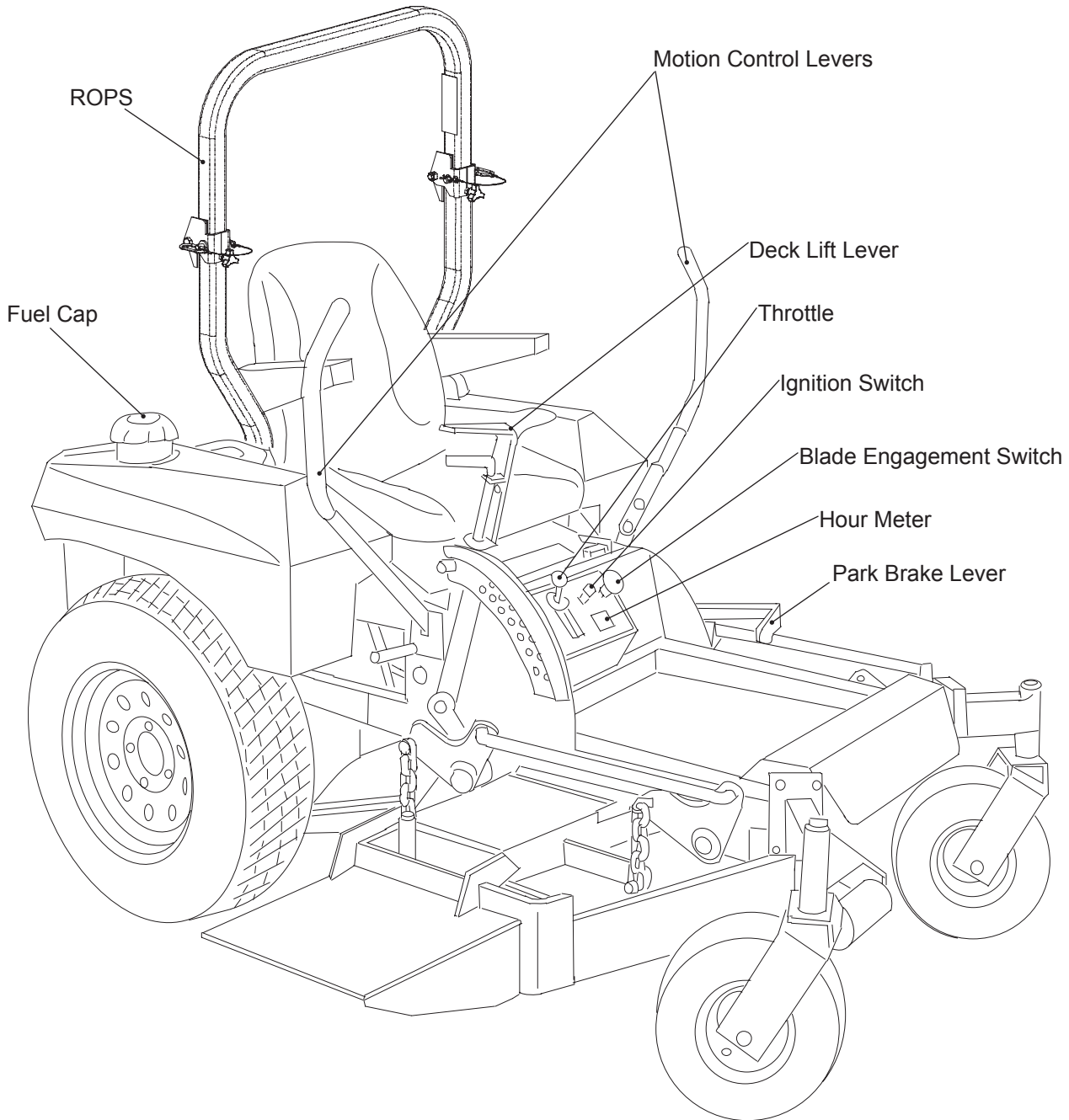
See your authorized Yazoo/Kees dealer for any park brake adjustment.

CONTROLS

This operator's manual describes the Yazoo/Kees Zero Turn Rider. The rider is fitted with a Kawasaki or Kohler four-stroke V-Twin engine developing 20-25 horse power.*

* As rated by the engine manufacturer.

Transmission from the engine is made via two belt-driven hydraulic pumps, which in turn drive a hydraulic motor for each drive wheel. Using the left and right steering controls, the flow is regulated and thereby the direction and speed.



CONTROLS

Motion Control Levers

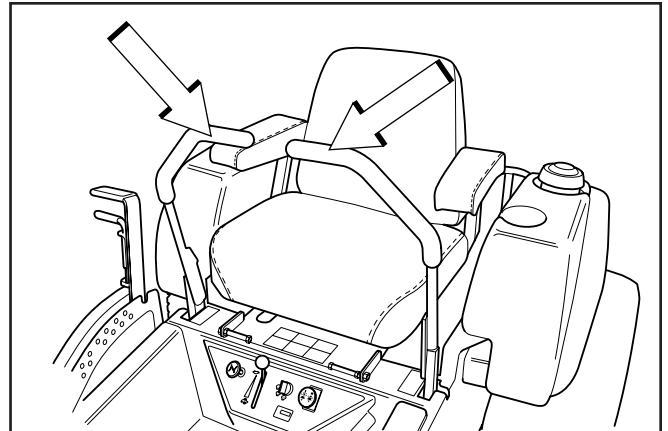
The machine's speed and direction are continuously variable using the two steering controls. The steering controls can be moved forward or backward about a neutral position. Furthermore, there is a neutral position, which is locked if the steering controls are moved outward.

When both controls are in the neutral position (N), the machine stands still.

By moving both controls an equal amount forward or backward, the machine moves in a straight line forward or backward respectively.

In order, for example, to turn right while moving forward, move the right control towards the neutral position. The rotation of the right wheel is reduced and the machine turns to the right.

Zero turn can be achieved by moving one control backward (behind the neutral position) and carefully moving the other steering control forward from its neutral position. The rotation direction when zero turning is determined by which steering control is moved backward behind the neutral position. If the left steering control is pulled backward, the machine turns to the left. Use extra care when using this maneuver.



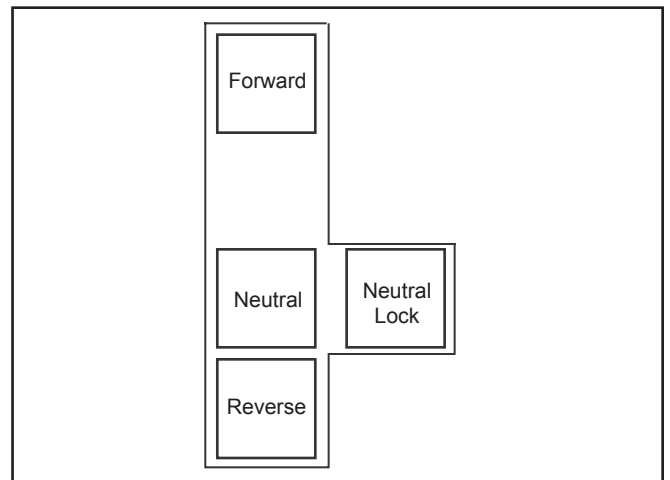
8011-788

Steering controls



CAUTION!

The machine can turn very rapidly if one steering control is moved significantly further forward than the other.



Motion control lever pattern (right side)

CONTROLS

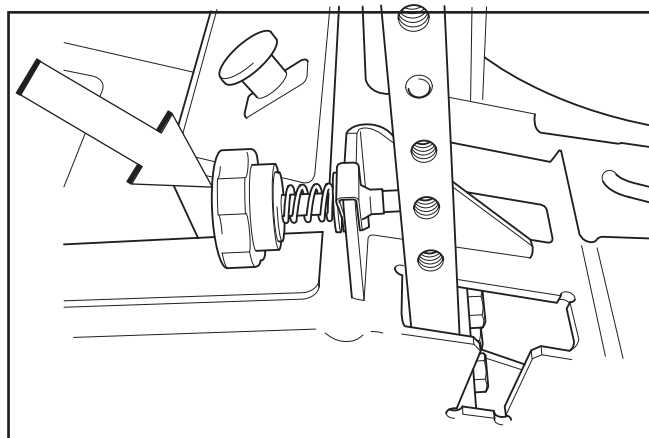
Tracking

If the mower is not tracking straight, check the air pressure in both rear tires. Recommended air pressure is 15 psi (1 bar). Tracking must be checked on a flat and level concrete or blacktop surface.

The tracking knob is located in front of the left control lever. Rotating this knob allows fine tuning adjustments so that the machine tracks straight with the drive levers in the full forward position.

Rotate the knob clockwise (as viewed from the operating position) to increase the speed or counterclockwise to decrease the speed on the left control lever. Example: If control levers are full forward and the unit turns to the right, turn the tracking knob counterclockwise to decrease the speed on the left control lever.

If unit still does not track straight, contact a Yazoo/ Kees dealer for adjustment.



8011-442

Tracking Knob

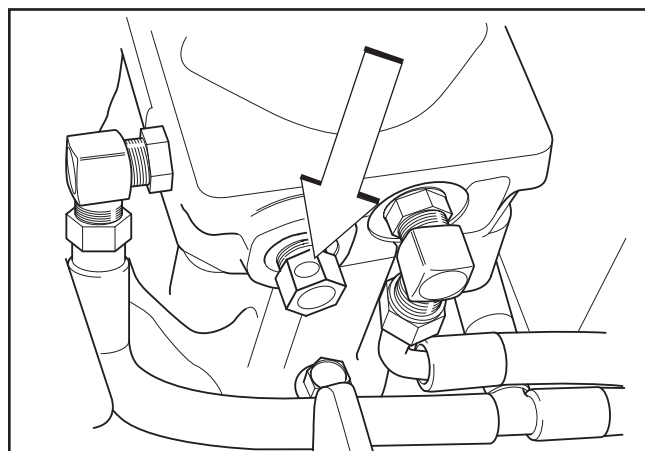
Bypass Linkages

When pushing or pulling the mower, be sure to open the release valves on the both hydraulic pumps.

Always turn off engine before engaging or disengaging the hydro release. Never attempt to adjust the bypass linkages with the engine running.

The hydro release valves are located below the seat, on the front side of the hydro pumps.

1. Raise the deck into highest cutting position.
2. Lift the seat frame assembly to access the release valves.
3. Use a $\frac{5}{8}$ " wrench to rotate bolt counterclockwise two full turns to disengage pump.
4. Repeat the procedure for the opposite pump.
5. To engage, rotate each pump bolt clockwise until the bolt is snug. Do not overtighten the release valve or damage to the hydro pump could occur.



8011-507

Bypass release valve

CONTROLS

Refueling

The machine has two fuel tanks, one on each side just behind the seat. The tank capacity is 5.7 gallons (17 liters).

The engine will run on a minimum of 87-octane unleaded gasoline (no oil mix). Environmentally adapted alkylate gasoline can be used. Methanol fuel is not allowed.

When operating below 32°F (0°C) use fresh, clean winter grade gasoline to help insure good cold weather starting.



WARNING!

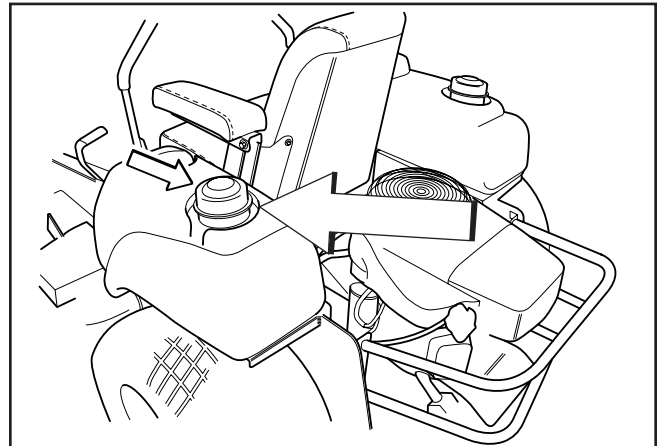
Fill to the bottom of the filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

IMPORTANT INFORMATION

Experience indicates that alcohol blended fuels (called gasohol, ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel the next season. See Storage Instructions for additional information. Never use engine or carburetor cleaners in the fuel tank or permanent damage may occur.

Fuel Shut Off Valve

The fuel shut off valve is located at the right rear of the seat. The valve has three positions: right tank, left tank and center (OFF position).



8011-524

Fuel tank



WARNING!

The engine and the exhaust system, become very hot during operation.

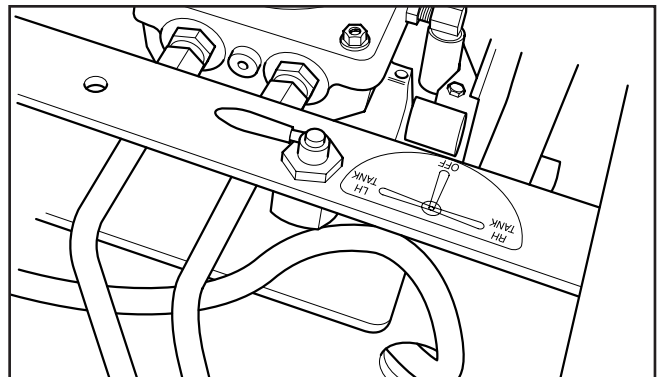
Risk for burns if touched.

Allow engine and exhaust system to cool at least two (2) minutes before refueling.



WARNING!

Gasoline is highly flammable. Observe caution and fill the tank outdoors. (See Safety)



8011-506

Fuel shutoff valve - open

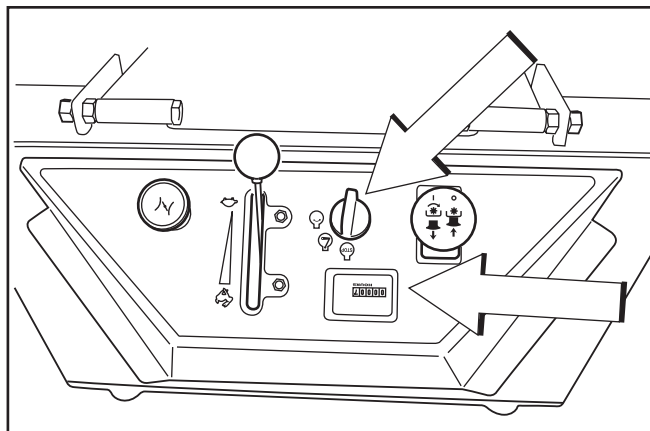
CONTROLS

Ignition Switch

The ignition switch is placed on the driver's control panel and is used to start and stop the engine.

IMPORTANT INFORMATION

Do not run the starter for more than five seconds each time. If the engine does not start, wait about 10 seconds before retrying.

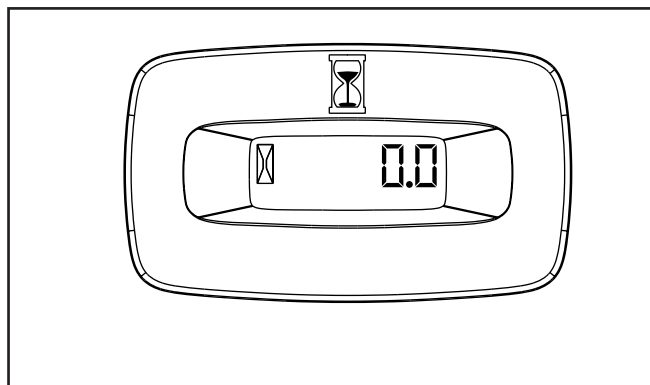


8011-521

Ignition switch and hour meter

Hour Meter

The hour meter displays the total operating time. It will flash CHG OIL (Change Oil) at 50 hour intervals. The flash duration is one hour before and one hour after the interval. The CHG OIL icon will come on and shut off automatically. The hour meter cannot be manually reset.

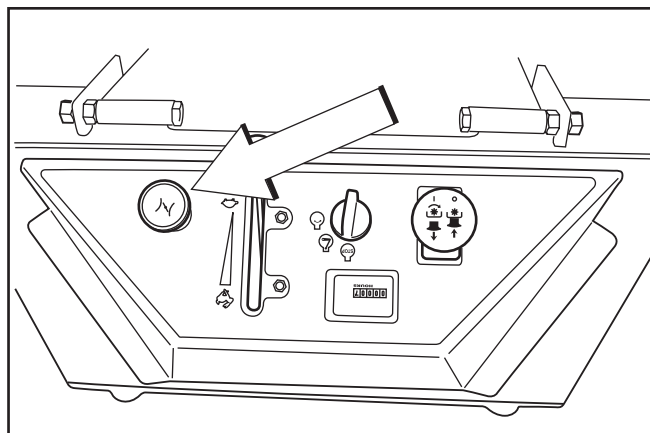


8050-140

Hour meter

Choke Control

The choke mode is used for cold starts in order to provide the engine with a richer fuel mixture. For cold starts, the control should be pulled out to its extent.



8011-508

Choke control

CONTROLS

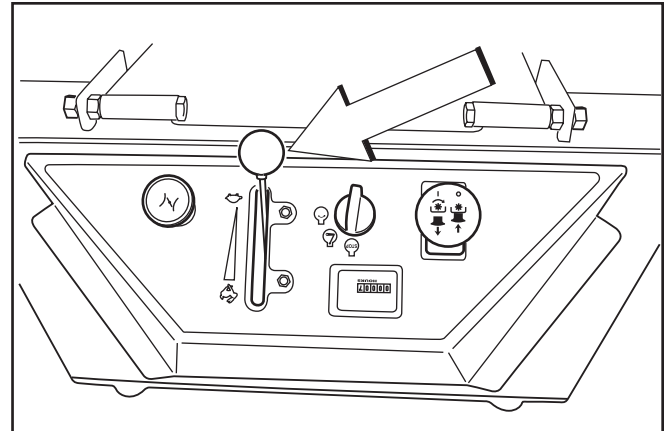
Throttle Control

The throttle control regulates the engine speed and thereby the rate of rotation of the blades, assuming the blade switch is pulled out, see Engaging the Mower Deck.

In order to increase or decrease the engine speed, the control is moved.

Avoid idling the engine for long periods, as there is a risk of fouling the spark plug.

USE FULL THROTTLE WHEN MOWING, for best mower performance and battery charging.

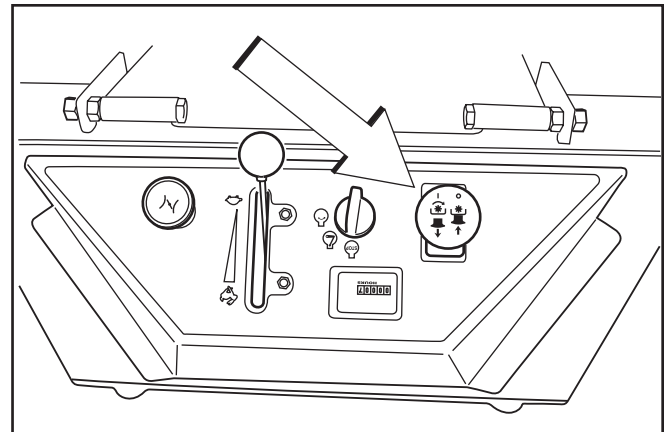


8011-508

Throttle control

Blade Switch

In order to engage the mower deck, pull the knob out; the mower blades are disengaged when the knob is depressed.



8011-508

Blade Switch

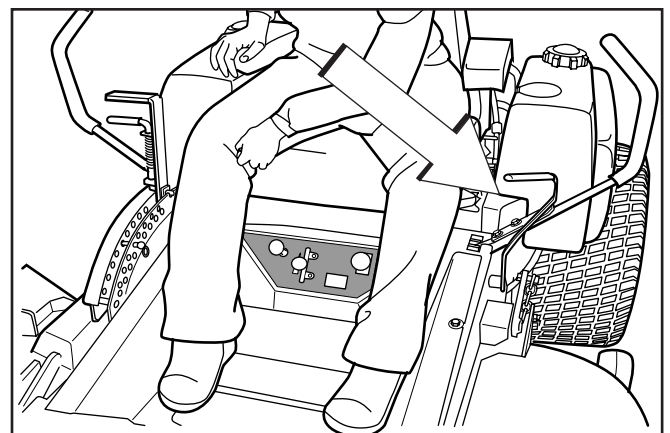
Parking Brake

The parking brake is found on the operator's left. Pull the lever upward to activate the brake and downward to release it.

The park brake is designed to hold the mower from moving and is not intended for use in stopping the mower while it is in motion. The engine will stop if the park brake is engaged while the control levers are in the drive position.

IMPORTANT INFORMATION

The machine must stand absolutely still when applying the parking brake. Always set the parking brake before dismounting. Release the parking brake before moving the mower.



8011-000

Parking brake activated

CONTROLS

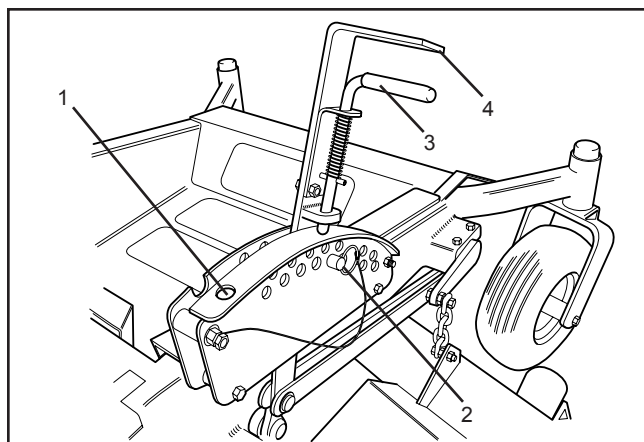
Mower Deck Cut Height Lift Lever

The lifting lever is used to place the mower deck in the transport position or one of the 14 different cutting height positions.

The cutting height is set by placing a peg in the hole for the desired cutting height and the peg is then locked on the inside (hidden in the illustration) with the supplied pin.

1. To raise the deck to the transport position, pull the lever backward to the locked position to engage the transport position.
2. To lower the deck, pull the lock handle to the lifting lever and push forward toward the peg to engage the set cutting height.
3. The lifting lever can also be used to temporarily adjust the cutting height, such as when passing a minor bump in the lawn.

Some models are equipped with an optional foot assist pedal for ease of deck maneuvering.



8011-525

1. Transport Lock
 2. Height selection peg
 3. Lock handle
 4. Lifting lever
- Cut height lift lever*

IMPORTANT INFORMATION

The cutting height range is from 1½" (38 mm) to 5" (127 mm) in ½" (13 mm) increments. The heights are measured from the ground up to the blade tip with the engine not running.

IMPORTANT INFORMATION

Always use the high position to transport.

IMPORTANT INFORMATION

In order to obtain an even cutting height it is important that the air pressure in all four tires is the same 15 psi (1 bar).

OPERATION

Read “Safety Instructions” section and following pages, if you are unfamiliar with the machine.

Training

Zero turn mowers are far more maneuverable than typical riding mowers due to their unique steering capabilities.

We suggest that this section be reviewed in its entirety prior to attempting to move the mower under its own power. Additionally, we suggest when first operating the mower, use a reduced throttle speed and reduced ground speed by NOT moving control levers to the furthest forward or reverse positions during initial operation, or until operator becomes comfortable with controls. We also suggest first time users, or new users to Zero Turn mowers to become familiar with the mower's movement on a hard surface, such as concrete or blacktop PRIOR to attempting to operate on turf. Until operator becomes comfortable with mower controls and zero turning capability, they may damage turf due to overly aggressive maneuvers.

IMPORTANT INFORMATION

When control levers are in the reverse position they return to neutral when released. This may cause the mower to suddenly stop.

Steering

To move forward and backward

The direction and speed of the mower's movements is effected by the movement of the control lever(s) on each side of mower. The left control lever controls the left wheel. The right control lever controls the right wheel.

First time users should push mower (see “Moving by Hand” in the “Operation” section) to an open, flat area, without other people or vehicles/obstacles nearby. In order to move unit under its own power, the operator must be in the seat, start engine (see “Before Starting” in “Operation” section), adjust engine speed to idle, disengage parking brake, do not engage blades at this time, rotate control levers inward. As long as the control levers have not been moved forward or backwards, mower will not move. Slowly move both control levers forward slightly. This will allow mower to start moving forward in a straight line. Pull back on control levers to the neutral position and mower should stop moving. Pull back slightly on control levers, this will allow mower to start moving backwards. Push forward on control levers to the neutral position and mower should stop moving.

To turn to the right

While moving in a forward direction, pull the right lever back towards the neutral position while maintaining the position of the left lever, this will slow the rotation of the right wheel and cause the machine to turn in that direction.

To turn to the left

While moving in a forward direction pull the left lever back towards the neutral position while maintaining the position of the right lever, this will slow the rotation of the left wheel and cause the machine to turn in that direction.

To zero turn

While moving in a forward direction, first pull both control levers back until the mower stops or slows dramatically. Then by alternating one lever slightly to the forward position and the other in the reverse position.

OPERATION

Before Starting

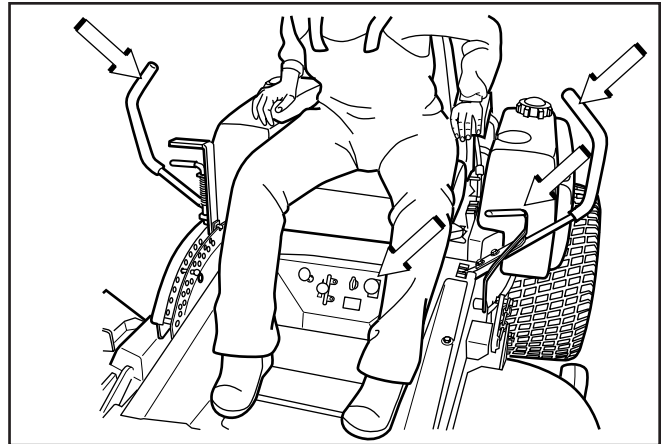
- Read the sections on Safety Instructions and Controls before starting the machine.
- Perform the daily maintenance before starting (see Maintenance section).
- Check that there is sufficient fuel in the fuel tank.
- Adjust the seat to the desired position.

The following conditions must be fulfilled before the engine can be started:

- The driver must be seated on the seat.
- The blade switch for engaging the mower blades must be depressed.
- The parking brake must be on.
- Both steering controls must be in the locked (outer) neutral position.

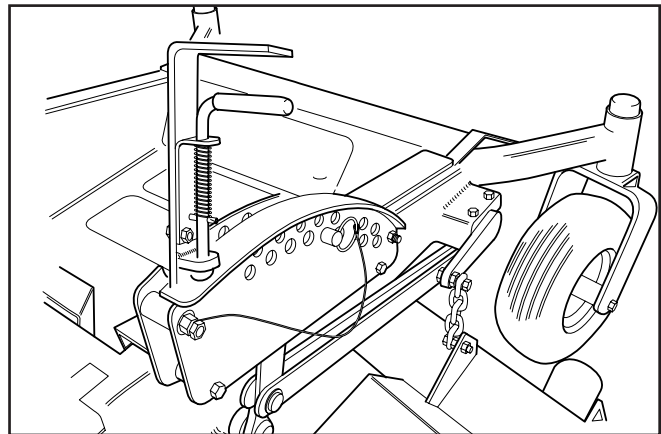
Starting the Engine

- Sit on the seat.
- Raise the mower deck by pulling the lifting lever backward to the locked position (transport position).
- Activate the parking brake.



8011-640-1

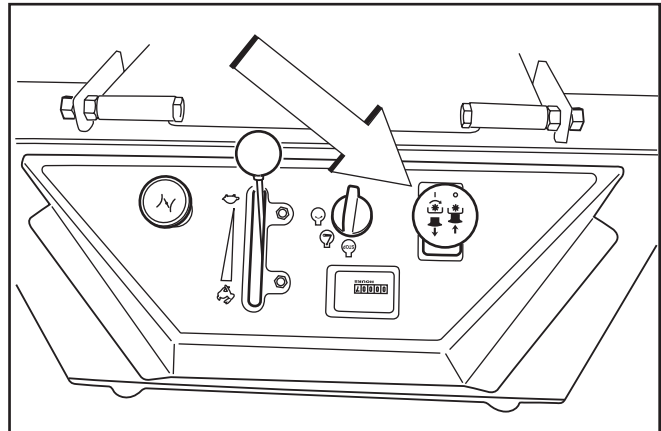
Conditions for starting



8011-525-02

Raise the mower deck to transport position

- Disengage the mower blades by depressing the blade switch.

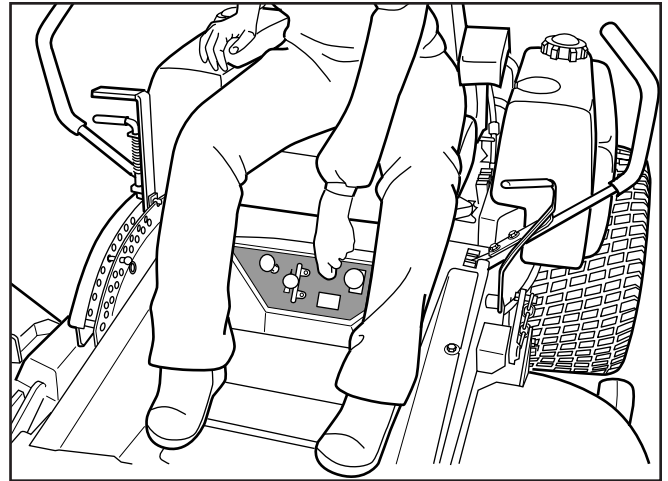


8011-508

Depress blade switch control the disengage deck

OPERATION

- Move the steering controls outward to the locked (outer) neutral position.
- Move the throttle to the middle position.
- If the engine is cold, the choke control should be pulled out to its extent.
- Press in and turn the ignition key to the start position.
- When the engine starts, immediately release the ignition key back to the run position.
- Set the desired engine speed with the throttle.
- Allow the engine to run at a moderate speed, "half throttle", for 3-5 minutes before loading it too heavily.
- **USE FULL THROTTLE WHEN MOWING** (no choke).



8058-012

Starting the engine



WARNING!

Ensure that no one is near mower when engaging blade switch.



WARNING!

Engine exhaust and certain vehicle components contain or emit chemicals considered to cause cancer, birth defects or other reproductive system damage. The engine exhaust contains carbon monoxide, which is a odorless, colorless, poisonous gas. Do not use the machine in enclosed spaces.

IMPORTANT INFORMATION

The mower deck's anti-scalp rollers should be evenly adjusted.

OPERATION

Weak battery

If your battery is too weak to start the engine, it should be recharged. (See “Battery” in the Maintenance Section.)

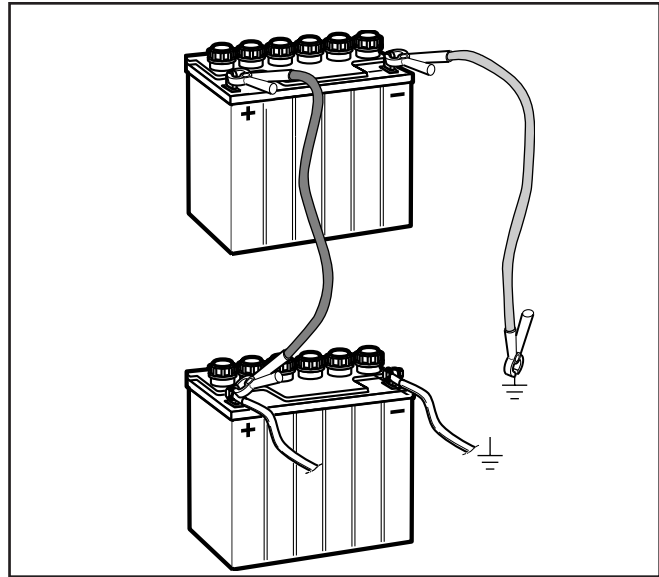
If “jumper cables” are used for emergency starting, follow this procedure:

To attach jumper cables

- Connect each end of the RED cable to the POSITIVE (+) terminal on each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of the fully charged battery.
- Connect the other end of the BLACK cable to a good CHASSIS GROUND on the mower with the discharged battery, away from the fuel tank and battery.

To remove cables, reverse order

- Remove BLACK cable first from chassis and then from the fully charged battery.
- Remove RED cable last from both batteries.



8011-642a

Jumper cable connection

IMPORTANT INFORMATION

Your mower is equipped with a 12-volt negative grounded system. The other vehicle must also be a 12-volt negative grounded system. Do not use your mower to start other vehicles.



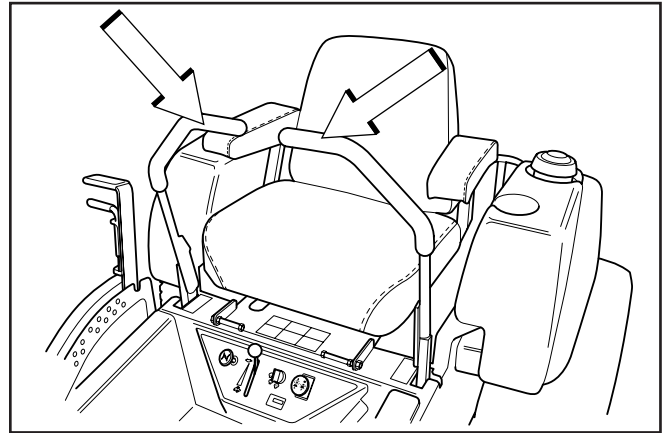
WARNING!

Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection then around batteries.

OPERATION

Running

1. Release the parking brake by moving the lever downward.
Your mower is equipped with an operator presence system. When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.
2. Move the steering controls to the neutral position (N).
3. Select the cutting height by the cutting height pedal.
4. Engage the mower deck by pulling out the blade switch.
5. Move throttle control to full throttle.
6. The machine's speed and direction are continuously variable using the two steering controls. When both controls are in the neutral position, the machine stands still.
By moving both controls an equal amount forward or backward, the machine moves in a straight line forward or backward respectively. In order, for example, to turn right while moving forward, move the right control towards the neutral position. The rotation of the right wheel is reduced and the machine turns to the right. Turning on the spot can be achieved by moving one control backward (behind the neutral position) and carefully moving the other steering control forward from its neutral position.



8011-788

Move steering controls to neutral and set cutting height.



WARNING!

Engine exhaust and certain vehicle components contain or emit chemicals considered to cause cancer, birth defects or other reproductive system damage. The engine exhaust contains carbon monoxide, which is a odorless, colorless, poisonous gas. Do not use the machine in enclosed spaces.

OPERATION

Operating on hills

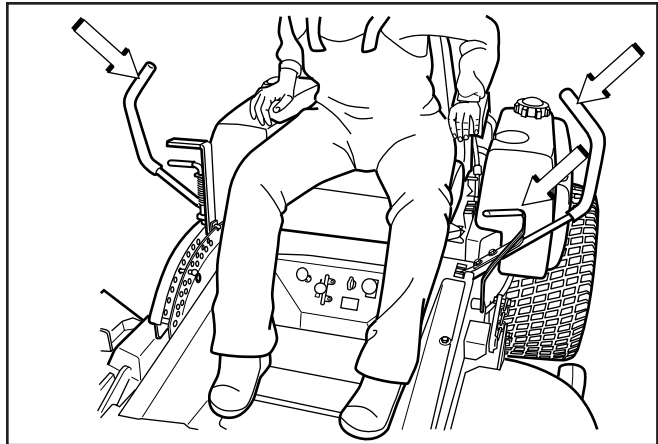
Read the Safety Instructions “Driving on Slopes” in the “Safety Instructions”.



WARNING!

Do not drive up or down hills with slopes greater than 10 degrees. Do not drive across slopes.

- The slowest speed possible should be used before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If stopping is absolutely necessary, pull drive levers into the neutral position and push to the outside of the unit and engage the parking brake.
- To restart movement, release the parking brake.
- Pull the control levers back to the center of the mower and press forward to regain forward motion.
- Make all turns slowly.



8011-640

Stopping conditions

OPERATION

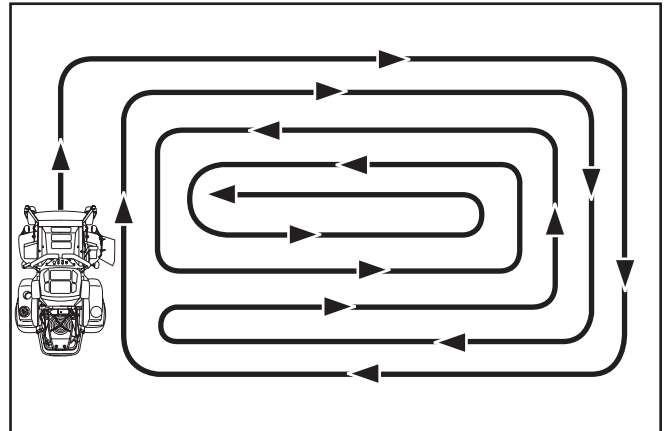
Mowing Tips

- Observe and flag rocks and other fixed objects to avoid collisions.
- Begin with a high cutting height and reduce it until the desired mowing result is attained. The average lawn should be cut to 2½" (64 mm) during the cool season and over 3" (76 mm) during the hot months. For healthier and better looking lawns, mow often after moderate growth. For best cutting performance, grass over 6" (15 cm) in height should be mowed twice. Make the first cut relatively high; the second to the desired height.
- The mowing result will be best with a high engine speed (the blades rotate rapidly) and low speed (the rider moves slowly). If the grass is not too long and dense, the driving speed can be increased without negatively affecting the mowing result.
- The finest lawns are obtained by mowing often. The lawn becomes more even and the grass clippings more evenly distributed over the mown area. The total time taken is not increased as a higher operating speed can be used without poor mowing results.
- Avoid mowing wet lawns. The mowing result is poorer because the wheels sink into the soft lawn, clumps build, and the grass clippings fasten under the cowl.
- Hose the mower deck underside with water after each use. When cleaning, the mower deck shall be raised into the transport position. Make sure the mower is cooled and the engine is off.
- Use compressed air to clean top surface of the deck. Avoid flooding water on top surface, engine and electrical components.
- When the mulching kit is used, it is important that the mowing interval is frequent.



WARNING!

Clear the lawn of stones and other objects that can be thrown out by the blades.



8011-603

Mowing pattern



WARNING!

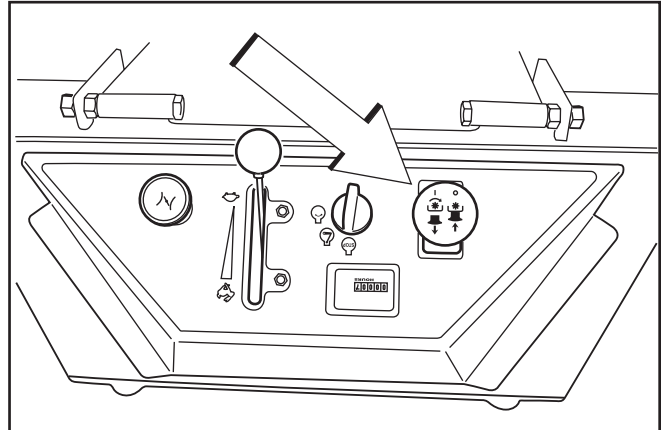
Never drive the rider on terrain that slopes more than 10 degrees. Mow slopes up and down, never side to side. Avoid sudden directional changes.

OPERATION

Stopping the Engine

Allow the engine to idle a minute in order to attain normal operating temperature before stopping it, if it has been worked hard. Avoid idling the engine for longer periods, as there is a risk of the spark plugs fouling.

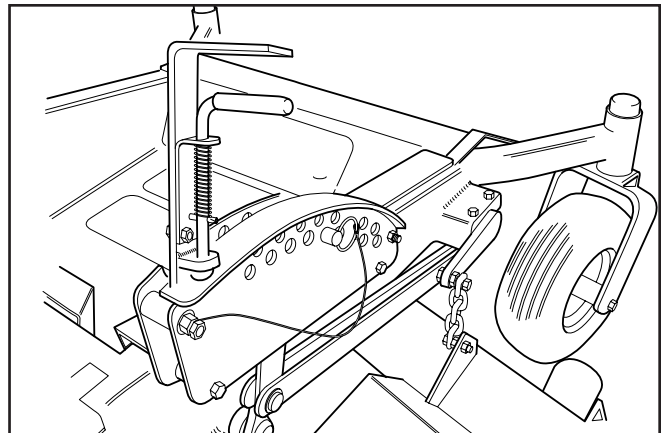
- Disengage the mower deck by depressing the blade switch.



8011-508

Blade Switch

- Raise the mower deck by to the transport position by pulling the lift lever up and back.
- When the machine is standing still, activate the parking brake by pulling the lever upward.
- Move the throttle to the minimum position (tortoise symbol). Turn the ignition key to the stop position.
- Move the steering controls outward.
- Remove key. Always remove key when leaving the mower to prevent unauthorized use.



8011-525-02

Raise the mower deck to transport position

IMPORTANT INFORMATION

Leaving the ignition switch in any other position than “OFF” will cause the battery to be discharged.

OPERATION

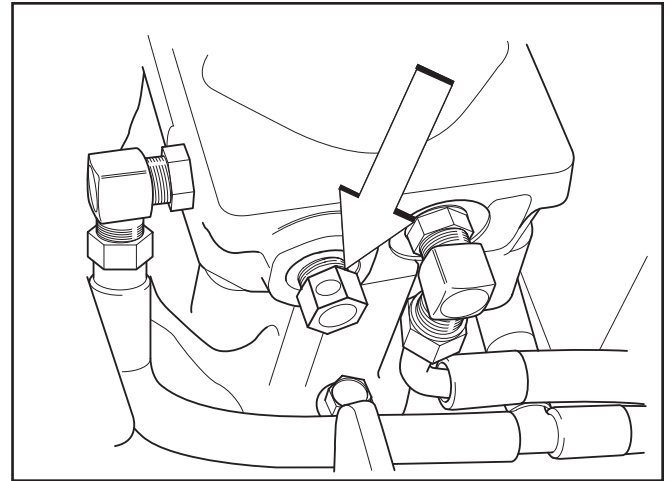
Moving Manually

When pushing or pulling the mower, be sure to open the release valves on both hydraulic pumps.

Always turn off engine before engaging or disengaging the hydro release. Never attempt to adjust the bypass linkages with the engine running.

The hydro release valves are located below the seat, on the front side of the hydro pumps.

1. Raise the deck into the highest cutting position.
2. Lift the seat frame assembly to access the release valves.
3. Use a $\frac{5}{8}$ " wrench to rotate bolt counter-clockwise two full turns to disengage pump.
4. Repeat the procedure for the opposite pump.
5. To engage, rotate each pump bolt clockwise until the bolt is snug. Do not overtighten the release valve or damage to the hydro pump could occur.



8011-507

Bypass release valve



WARNING!

No settings or adjustments are to be made unless the engine is stopped, the park brakes is engaged and the battery cable has been removed from the battery.

MAINTENANCE

Annual inspection and maintenance from an authorized Yazoo/Kees dealer is recommended to keep your machine in the best condition mechanically and ensures safe operation.

Engine oil

Engine oil should be checked daily before starting the machine. See the engine manufacturers manual for specifications on type of oil, filling instructions and service intervals.

Safety System

The machine is equipped with a safety system that prevents starting or driving under the following conditions.

The engine can only be started when:

- The mower deck is disengaged.
- The steering controls are in the outer, locked neutral position.
- The driver is sitting in the driver's seat.
- The parking brake is on.

Make daily inspections to ensure that the safety system works by attempting to start the engine when one of the conditions is not met. Change the conditions and try again.

If the machine starts when one of these conditions is not met, turn the machine off and repair the safety system before using the machine again.

Make sure the engine stops when the park brake is not engaged and the operator leaves the seated position.

Check that the engine stops if the mower blades are engaged and the driver temporarily stands up.

Hardware

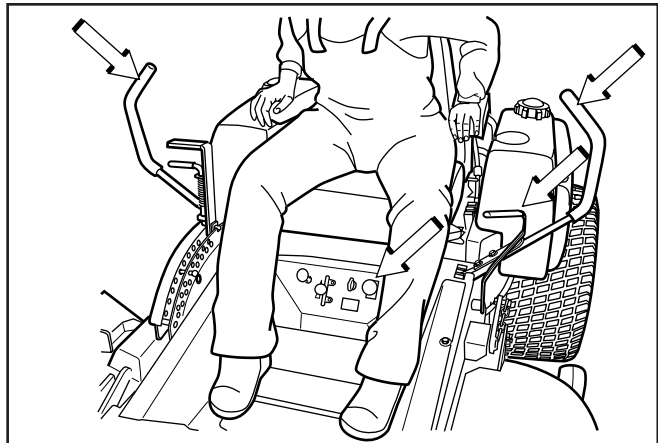
Check daily. Inspect the entire machine for loose or missing hardware.

Air filter

See engine manufacturers specifications for cleaning and replacement intervals.

IMPORTANT INFORMATION

In order to drive the unit, the driver must sit in the seat and release the parking brake before the steering controls can be moved into the neutral position, otherwise the engine will stop.



8011-640-1

Conditions for starting

MAINTENANCE

Hydraulic system

Check oil level in tank daily. Oil level should be $\frac{3}{4}$ " to 1" below the top of the tank. Check all fittings, hoses and lines for damage or leaks. Replace or repair any questionable lines or fittings.

Change the oil and filter after the first 250 hours of operation then annually after that. Drain tank and remove filter, be sure to clean around the tank and filter head before removal. Replace filter and drain plug and refill hydraulic tank. Only use MOBIL 1 synthetic oil.

Raise and block up the rear of the machine so the drive wheels can rotate freely. Start the engine at the lowest RPM possible, move the motion control levers forward and run machine for several minutes. Stop engine and recheck the oil level.

If the wheels do not respond an air lock has occurred within the system. The system must be bled off of air or let the machine set overnight to allow the air time to dissipate out of the oil. DO NOT run the machine with an air lock serious damage can occur to the pumps and wheel motors.

Mower blades

Inspect blades and sharpen or replace as needed. Check blades daily or as needed. Bent, cracked or blades with large notches in them should be replaced. Sharpen to an angle of 22 to 28 degrees. Always check the balance of the blades after sharpening to prevent excessive vibration.

Checking the Blades

In order to attain the best mowing performance, it is important that the blades are well sharpened and not damaged.

Bent or cracked blades or blades with large nicks should be replaced.

Check the blade mounts.

Damaged blades should be replaced after hitting obstacles that result in a breakdown. Let the service workshop decide whether the blade can be repaired/ground or must be discarded.

Blade replacement

Remove blade bolt by turning counterclockwise.

Install new or resharpened blade with stamped "GRASS SIDE" facing towards ground/grass (down) or "THIS SIDE UP" facing deck and cutter housing.

Some blades may not be stamped with "GRASS SIDE" and "THIS SIDE UP". These blades can be installed either way.

Install and tighten blade bolt securely. Torque blade bolt to 90 ft/ lbs (122 Nm).



WARNING!

If a leak is suspected, use a piece of cardboard or wood, NOT your hands, to check for leaks.

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious injury.

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



WARNING!



Blades are sharp. Protect your hands with gloves and/or wrap blades with a heavy cloth when handling.

IMPORTANT INFORMATION

The sharpening of blades should be carried out by an authorized service workshop.

IMPORTANT INFORMATION

Special blade bolts are heat treated. Replace with a Yazoo/Kees bolt if required. Do not use a lower grade hardware that specified.

MAINTENANCE

Cutter Housings

Grease housings once weekly or every 40 to 50 hours of use. Use a good synthetic grease. Pump grease in until a small amount purges from the poppet on the underside of the deck. Check the torque of the pulley bolt (45 ft/lbs) should be maintained.

Checking the Parking Brake

Visually check that no damage is found on the lever, links, or switch belonging to the parking brake. Perform a test drive and check that there is sufficient braking action.

To adjust the parking brake, contact the Yazoo/Kees service workshop.

Checking the Deck belt

Check every 100 hours of operation. Check for severe cracking and large nicks.

NOTE: The belt will show some small cracks in normal operation.

To replace belt:

1. Lower the deck to its lowest position. Remove the foot plate and belt shields.
2. Use a ratchet with a $\frac{9}{16}$ " socket on the spring idler bolt to relieve the tension on the belt.
3. Slide the belt off the pulley and remove the belt.
4. Reverse the procedure for installation. See the decal on the top of deck for belt routing information.
5. After installation is complete check the belt for twists.

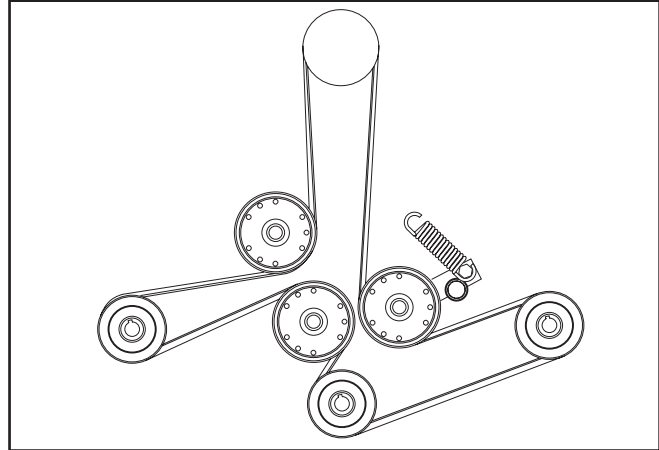
Checking the pump belt

Check belt every 100 hours for excessive wear.

To replace belt, relieve tension on the deck belt and remove deck belt from clutch. (See deck belt instructions on previous page.) Loosen bolt on the clutch tie down and rotate out of the way. Using a $\frac{1}{2}$ " drive ratchet inserted into the square hole in the pump idler arm relieve the tension on the pump belt and remove belt.

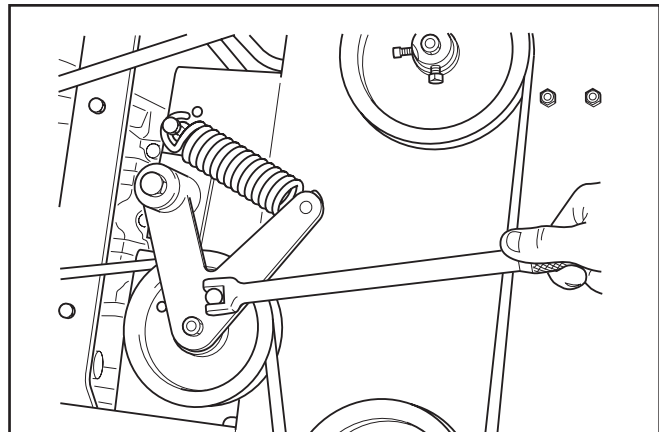
To reinstall belt, swing pump idler pulley out toward engine to route belt around it. Route belt around right the pulley for the left side first (right hand pulley in the illustration).

Reinstall idler spring and use the ratchet to rotate idler so the belt may be installed all the way around the last pulley.



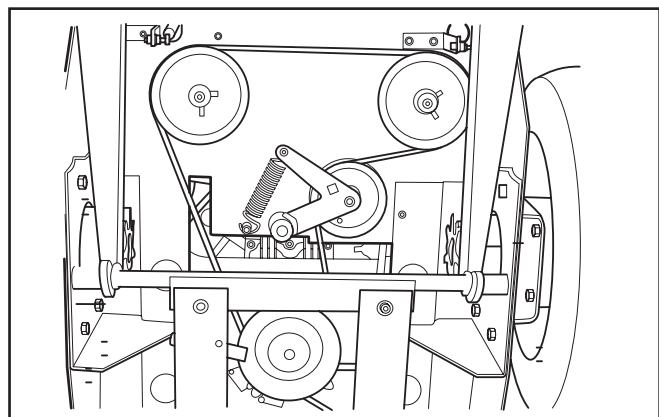
8058-007

Deck belt routing



8011-623

Slackening the belt tension



8011-624

Belt routing, hydraulic pumps

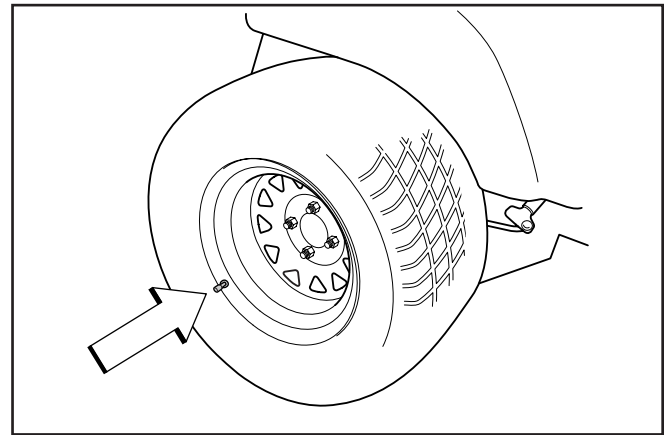
MAINTENANCE

Lubrication

See service decal under foot plate for service points and maintenance intervals. Clean grease zerks thoroughly before greasing. See engine manual for engine service.

Tire pressure

Check every 25 hours. All four tires require 15 psi / 103 kPa / 1 bar.



8011-564

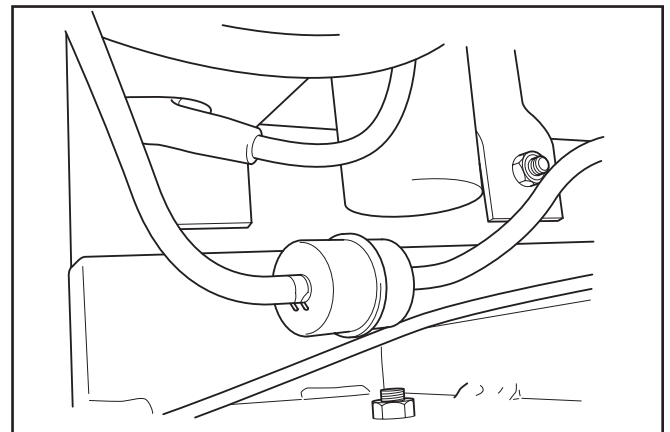
Tire pressures

Replacing the Fuel Filter

Replace the line-mounted fuel filter every 100 hours (once per season) or more often if it becomes clogged.

To replace the filter:

1. Move the hose clamps away from the filter. Use flat-nosed pliers.
2. Pull the filter loose from the hose ends.
3. Push the new filter into the hose ends. Position the filter with the "FLOW" arrow pointing up toward the fuel pump. If necessary, a soap solution can be applied to the filter ends to ease mounting.
4. Move the hose clamps back toward the filter.



8011-468

Fuel filter

MAINTENANCE

Adjusting the Mower Deck

Leveling

1. Position the mower on a level, preferably concrete, surface.
2. Check the pressure in all four tires. See "Technical Data".
3. Rotate blades to align front to back.
4. Set the cutting height to 4".
5. Measure front blade tip, should be 4" from ground, if not turn locknut on top of front eyebolt till measurement is achieved. Check blade tip at front on opposite front blade. Adjust locknut on front eyebolt as necessary.
6. Check rear blade measurement, should be 4¼" from ground. If not, turn the locknut on the top of the rear eyebolt to achieve the measurement. Repeat procedure on opposite side.

Cutting height adjustments

1. Raise and secure the deck height lever to the transport position.
2. Position blade tip so it is straight forward.
3. Measure from the cutting edge of the blades to a flat level surface.
4. Drop and secure the lever at (for example) the 2" cutting height. Measure as above. The distance should be 2" (50 mm).

Anti-scalp rollers

Anti-scalp rollers are properly adjusted when they are just slightly off of the ground when the deck is at the desired cutting height in the operating position. Anti-scalp rollers then keep the deck in the proper position to help prevent scalping in most terrain conditions.

The anti-scalp rollers can be set in three positions.

Upper position 1.5" to 3" (38 to 76 mm) grass.

Middle position 3" to 4.5" (76 to 114 mm) grass.

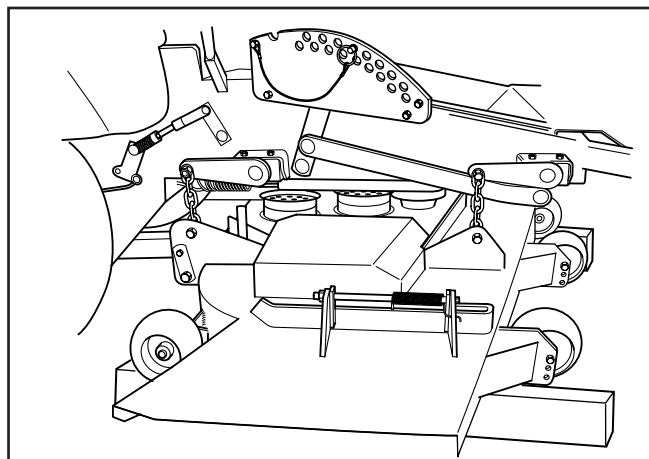
Lower position 4.5" to 6" (114 to 152 mm) grass.



WARNING!

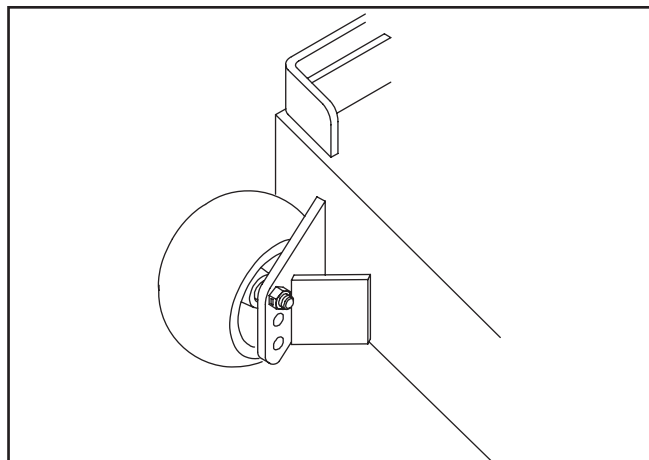


Blades are sharp. Protect your hands with gloves and/or wrap blades with a heavy cloth when handling.



8011-601

Leveling the mower deck



Anti-scalp roller

IMPORTANT INFORMATION

Adjust anti-scalp rollers with the mower on a flat, level surface. The anti-scalp rollers must not be used for gauge wheels or the roller and deck may be damaged.

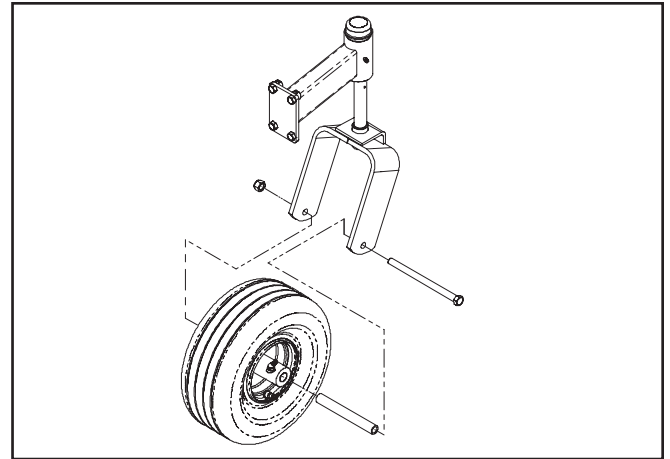
MAINTENANCE

Caster Wheels

Check every 200 hours. Lift front of unit off of ground so caster wheels can rotate freely. Tighten caster bolt (34) then back off $\frac{1}{2}$ turn. Check that wheel rotates freely. If wheel does not rotate freely back the caster bolt off in $\frac{1}{4}$ turn increments until wheel rotates freely. Foam filled tires or solid tires will void the warranty.

Removal and installation of caster wheel

1. Remove nut (35) and caster bolt (34).
2. Pull the wheel out of the fork and take care of the sleeve (36).
3. Install in reverse order. Tighten caster bolt according to instructions above.

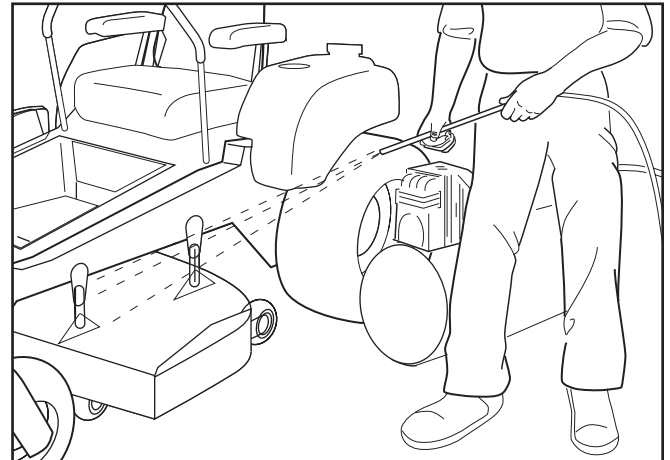


Caster wheel

Cleaning and Washing

Regular cleaning and washing, especially under the mower deck, will increase the machine's life span. Make it a habit to clean the machine directly after use (after it is cooled), before the dirt sticks.

Do not spray water on the top of the mower deck. Use compressed air to clean the top side of mower deck. Regularly clean deck and underside of deck, avoiding spraying engine and electrical components with water.



8011-644-2

Cleaning

LUBRICATION

General

Remove the ignition key to prevent unintentional movements during lubrication.

When lubricating with an oil can, it must be filled with engine oil.

When lubricating with grease, unless otherwise stated, use a high grade molybdenum disulphide grease.

For daily use, the machine should be lubricated twice weekly.

Wipe away excess grease after lubrication.

It is important to avoid getting lubricant on the belts or the drive surfaces on the belt pulleys. Should this happen, attempt to clean them with spirits. If the belt continues to slip after cleaning, it must be replaced. Gasoline or other petroleum products must not be used to clean belts.

Hydraulic System, Oil Level

The hydraulic oil and filter should be replaced every 300 hours, and at least once a year. Contact an authorized service workshop.

Check the oil level in the hydraulic tank daily. The level should be about $\frac{3}{4}$ "-1" (19 - 25 mm) below the top of the tank. Check connections, hoses, and tubes for damage or leaks. Replace or repair if doubtful.

Hydraulic System-Changing Oil and Filters

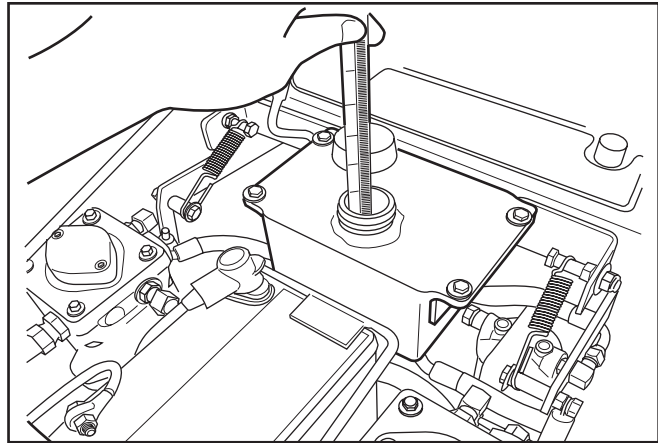
Oil and filter changes should be carried out by an authorized service workshop due to the risk of impurities entering the system.

Driver's Seat

Tip the seat forward. Lubricate the hinges at the front of the seat using an oil can. Lubricate the seat slide adjustment and lever mechanism with the oil can.

Engine Oil

The engine oil must be changed for the first time after 8 hours of operation. Thereafter, it should be changed every 100 hours. See the engine manufacturer's manual for specifications on oil type, filling instructions.



8011-565

Checking the hydraulic oil



WARNING!

If a leak is suspected, use a piece of cardboard or wood, NOT your hands, to check for leaks.

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious injury.

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

LUBRICATION

Lubricating the Cables

If possible, grease both ends of the cables and move the controls to end stop positions when lubricating. Refit the rubber covers on the cables after lubrication. Cables with sheaths will bind if they are not lubricated regularly. If a cable binds, it can disrupt operation.

If a cable binds, remove the cable and hang it vertically. Lubricate it with light engine oil until the oil begins to escape from the bottom.

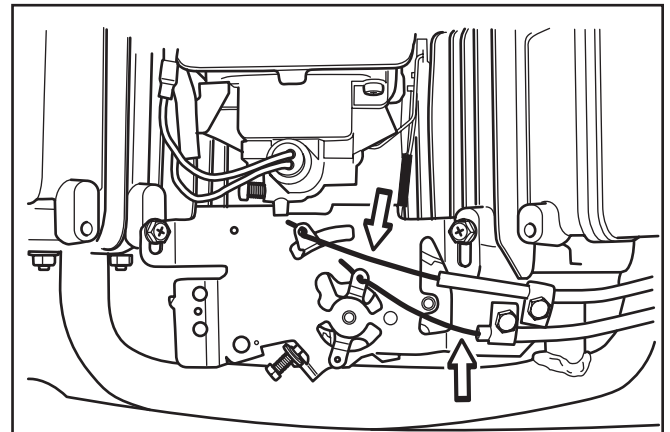
Tip: Fill a small plastic bag with oil and tape it so that it seals against the sheath and allow the cable to hang vertically from the bag overnight. If you do not succeed in lubricating the cable, it must be replaced.

Throttle and Choke Cables, Lever Bearings

Lubricate the cable ends by the carburetor with an oil can. Move the controls to the end points and lubricate again.

The throttle cable is also lubricated by the control when the control console is removed.

The illustration shows the Kawasaki engine.



8011-605

Throttle and choke cables by the carburetor

Shaft Bushings and Linkage

Lubricate the bearings of the shafts and linkage for the brake system and steering with oil spray or oil can.

Front Wheel Mount

Lubricate with a grease gun, one zerk for each wheel mount, until the grease is forced out.

Use only good quality molybdenum disulphide grease.

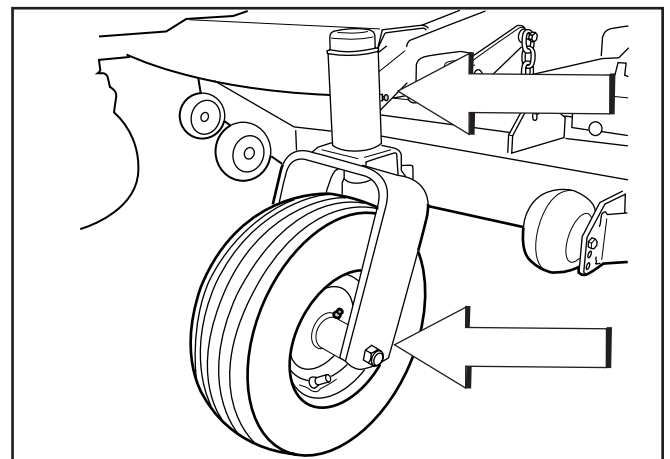
Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.

Front Wheel Bearings

Lubricate with a grease gun, one zerk for each set of wheel bearings, until the grease is forced out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



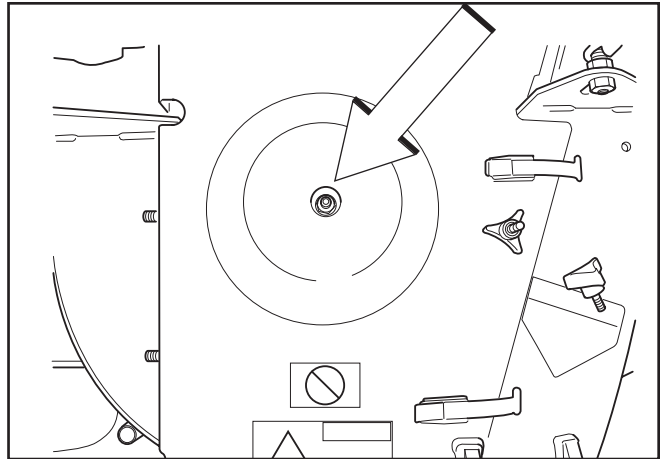
8011-573

Lubricating the front wheels

LUBRICATION

Deck belt pulleys

Lubricate with a grease gun, two strokes.



Deck belt pulleys

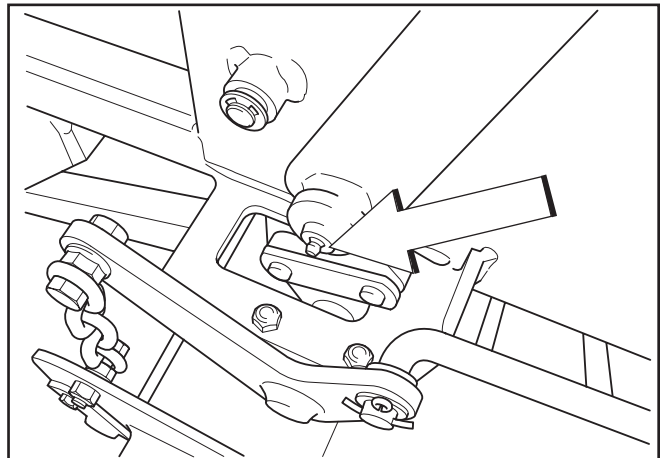
Mower Deck Height Adjuster

Lubricate using a grease gun, one zerk, until the grease squeezes out.

Lubricate the lever latch run in the lever.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



Deck height adjuster

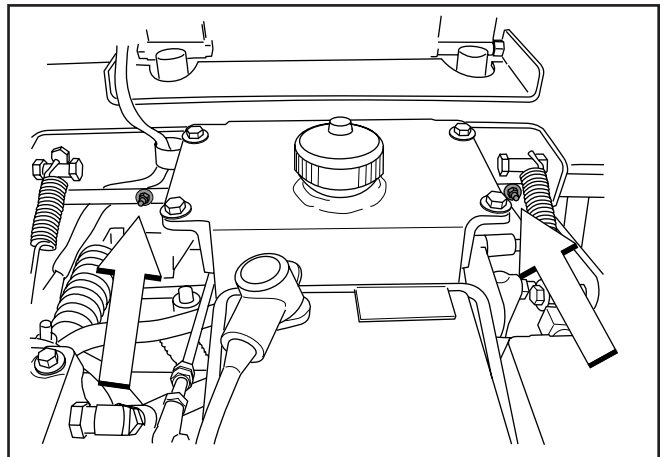
Steering Control Shafts

Tip the driver's seat forward.

Lubricate with a grease gun, one zerk for each steering control shaft, until the grease is forced out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



Lubricating the steering control shafts

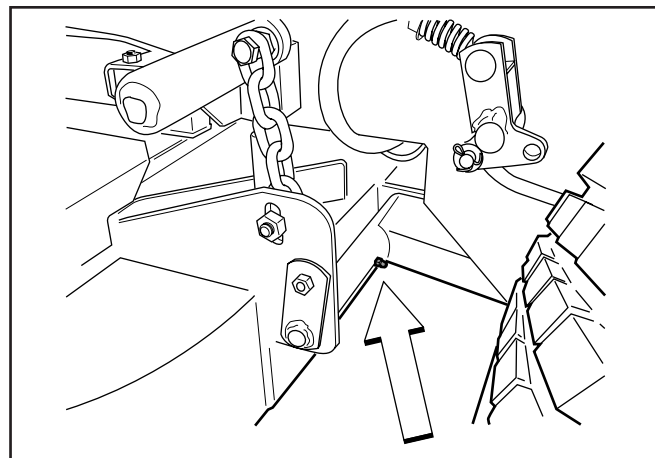
LUBRICATION

Mower Deck Struts

Lubricate with a grease gun, one zerk for each strut, until the grease is forced out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



8011-577

Lubricating struts

TROUBLE SHOOTING

Problem	Cause
The engine will not start.	<ul style="list-style-type: none">• Blade switch is engaged.• Steering controls are not locked in the neutral position.• Driver is not sitting in the driver's seat.• Parking brake is not activated.• Battery is dead.• Contamination in the carburetor or fuel line.• Fuel supply is closed or the shut-off valve for the fuel tank is in the wrong position.• Clogged fuel filter or fuel line.
The starter does not turn the engine over.	<ul style="list-style-type: none">• Dead battery.• Poor contacts on the battery terminal cable connections.• Fuse blown.• Ignition system faulty.• Fault in the starter safety circuit. See Checking the Safety System in the "Maintenance" section
The engine runs rough.	<ul style="list-style-type: none">• Faulty carburetor.• Choke control is pulled out with a warm engine.• Defective valves.• Defective piston, cylinder, piston ring, or cylinder head seal.• Cylinder head bolts are loose.• Clogged fuel filter or jet.• Clogged ventilation valve on the fuel cap.• Fuel tank nearly empty.• Fouled spark plug.• Spark plug is loose.• Defective ignition cable.• Defective spark plug electrode.• Defective spark plug connection.• Rich fuel mixture or fuel-air mixture.• Wrong fuel type.• Water in the fuel.• Clogged air filter.• Air trapped in hydraulic system.
The engine seems weak.	<ul style="list-style-type: none">• Clogged air filter.• Defective spark plugs.• Carburetor incorrectly adjusted.
The engine seems weak.	<ul style="list-style-type: none">• Clogged air filter.• Fouled spark plugs.• Carburetor incorrectly adjusted.
Battery not charging.	<ul style="list-style-type: none">• Poor contact with battery terminal cable connectors.

TROUBLE SHOOTING

The engine overheats.

- Clogged air intake or cooling fins.
 - Engine overloaded.
 - Poor ventilation around engine.
 - Defective engine speed regulator.
 - Soot in the combustion chamber.
 - Too little or no oil in the engine.
 - Defective spark plugs.
 - Pre-ignition incorrect.
-

The machine moves slowly, unevenly, or not at all.

- Parking brake on.
 - Bypass valve on pump open.
 - Drive belt for the transmission gears slack or has come off.
 - Defective hydraulic system.
 - Air trapped in hydraulic system.
-

Mower deck not engaging.

- Drive belt for the mower deck has come loose.
 - Contact for the electromagnetic coupling has loosened.
 - The blade switch is faulty or has come loose, from the cable contact.
 - The fuse has blown.
-

Uneven mowing results.

- Different air pressure in the tires on the left and right sides.
 - Bent blades.
 - The chains for suspending the mower deck are uneven.
 - The chain fixture has come loose.
 - The blades are blunt.
 - Driving speed too high.
 - The grass is too long.
 - Grass collected under the mower deck.
-

The machine vibrates.

- The blades are loose.
 - The blades are incorrectly balanced.
 - The engine is loose.
-

Uneven mowing results.

- Different air pressure in the tires on the left and right sides.
- Bent blades.
- The suspending for the mower deck is uneven.
- The chain fixture has come loose.
- The blades are blunt.
- Driving speed too high.
- The grass is too long.
- Grass collected under the mower deck.

STORAGE

Winter Storage

At the end of the mowing season, the machine should be readied for storage (or if it will not be in use for longer than 30 days). Fuel allowed to stand for long periods of time (30 days or more) can leave sticky residues that can plug the carburetor and disrupt engine function.

Fuel stabilizers are an acceptable option as regards sticky residues during storage.

Add stabilizer to the fuel in the tank or in the storage container. Always use the mixing ratios specified by the manufacturer of the stabilizer. Run the engine for at least 10 minutes after adding the stabilizer so that it reaches the carburetor. Do not empty the fuel tank and the carburetor if you have added stabilizer.

To ready the machine for storage, follow these steps:

1. Thoroughly clean the machine, especially under the mower deck. Touch up damage to the paint and spray a thin layer of oil on the underside of the mower deck to avoid corrosion.
2. Inspect the machine for worn or damaged parts and tighten any nuts or screws that may have become loose.
3. Change the engine oil; dispose of properly.
4. Empty the fuel tanks or add a fuel stabilizer. Start the engine and allow it to run until the carburetor is drained of fuel or the stabilizer has reached the carburetor.
5. Remove the spark plugs and pour about a tablespoon of engine oil into each cylinder. Turn over the engine so that the oil is evenly distributed and then refit the spark plugs.
6. Lubricate all grease zerks, joints, and axles.
7. Remove the battery. Clean, charge, and store the battery in a cool place, but protect it from direct cold.
8. Store the machine in a clean, dry place and cover it for extra protection.

Service

When ordering spare parts, please specify the purchase year, model, type, and serial number.

Always use genuine Yazoo/Kees spare parts.

An annual checkup at an authorized service workshop is a good way to ensure that your machine performs its best the following season.



WARNING!

Never store an engine with fuel in the tank indoors or in poorly ventilated spaces where fuel vapor can come in contact with open flames, sparks, or a pilot light such as in a boiler, hot water tank, clothes drier, etc. Handle the fuel with care. It is very flammable and careless use can cause serious personal injury and property damage. Drain the fuel into an approved container outdoors and far away from open flame. Never use gasoline for cleaning. Use a degreaser and warm water instead.

CONFORMITY CERTIFICATES

Conformity Certificates

USA requirements

Labels are placed on the engine and/or in the engine compartment stating that the machine will fulfill the requirements. This is also applicable to special requirements for any of the states, (California emission rules etc.). Do not remove any of these labels. Certificates can also be supplied with the machine at delivery or written in the Engine manual. Take care of them as they are valuable documents.

CE requirements

Vibration data corresponding to Directive 2002/44/EC is given in the Technical Data Section.

The Declaration of Conformity is included in the literature packet.

TECHNICAL DATA

	ZMKW52212	ZMKH52252
Engine		
Manufacturer	Kawasaki	Kohler
Type	FH641V	Command Pro CV730S
Power	21hp* / 15.4kW	25hp* / 18.4kW
Lubrication	Pressure with oil filter	Pressure with oil filter
Oil capacity excluding filter	1.6 qt / 1.7 liters	1.6 qt / 1.5 liter
Oil capacity including filter	1.8 qt / 1.9 liters	1.7 qt / 1.6 liter
Engine oil (See viscosity diagram)	SAE 10W30, 10W40, SAE 30, SAE 40 API SF-SJ	SAE 10W30, 10W40, 5W20, 5W30 API SF-SJ
Fuel	Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%)	Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%)
Fuel tank capacity	11.4 gallon / 43.2 liters	11.4 gallon / 43.2 liters
Spark plugs / gap	NGK BPR5ES .030" / 0.75 mm	Champion RC12YC .030" / 0.75 mm
Cooling	Air cooled	Air cooled
Air filter	Heavy duty canister	Heavy duty canister
Alternator	12V 15A	12V 15A
Starter	Electric	Electric
Transmission		
Transmission	Dual pumps, wheel drive motors	Dual pumps, wheel drive motors
Speed and direction controls	Dual levers, foam gripped	Dual levers, foam gripped
Speed forward	0-9.5 mph / 15.3 km/h	0-9.5 mph / 15.3 km/h
Speed reverse	0-5 mph / 0-8 km/h	0-5 mph / 0-8 km/h
Brakes	Mechanical parking brake	Mechanical parking brake
Front caster tires, smooth tread	13 x 5.0-6, 4 ply	13 x 5.0-6, 4 ply
Rear tires, turf pneumatic	23 x 10.5-12 4 ply	23 x 10.5-12 4 ply
Tire pressure, front and rear	15 PSI / 103 kPa / 1 bar	15 PSI / 103 kPa / 1 bar

TECHNICAL DATA

	ZMKW52212	ZMKH52252
Cutting Width	52" / 132 cm	52" / 132 cm
Cutting Height	1.5 - 5" / 3.8 - 12.7 cm	1.5 - 5" / 3.8 - 12.7 cm
Uncut Circle	0	0
Number of Blades	3	3
Blade Length	18" / 46 cm	18" / 46 cm
Anti=Scalp Rollers	6 adjustable	6 adjustable
Sprung Seat	Standard Hi-back	Standard Hi-back
Hinged Arm Rests	Yes	Yes
Hour Meter	Digital with service intervals	Digital with service intervals
Blade Engagement	200 ft/lb Warner	200 ft/lb Warner
Deck Construction	7 gauge tunnel and sides	7 gauge tunnel and sides
Productivity		
Productivity	4.1 acres /h 16605 m2/h	4.1 acres /h 16605 m2/h
Overall Dimensions		
Weight	880 lbs / 400 kg	880 lbs / 400 kg
Base Machine Length	76½" / 195 cm	76½" / 195 cm
Base Machine Width	51½" / 131 cm	51½" / 131 cm
Base Machine Height	42½" / 108cm	42½" / 108cm
Overall Width, Chute Up	53" / 135 cm	53" / 135 cm
Overall Width, Chute Down	65" / 165 cm	65" / 165 cm

TECHNICAL DATA

	ZMKH61252	ZMKW48172
Engine		
Manufacturer	Kohler	Kawasaki
Type	Command Pro CV730S	FH541V
Power	25hp* / 18.4kW	17hp* / 12.5kW
Lubrication	Pressure with oil filter	Pressure with oil filter
Oil capacity excluding filter	1.6 qt / 1.5 liter	1.6 qt / 1.7 liters
Oil capacity including filter	1.7 qt / 1.6 liter	1.8 qt / 1.9 liters
Engine oil (See viscosity diagram)	SAE 10W30, 10W40, 5W20, 5W30 API SF-SJ	SAE 10W30, 10W40, SAE 30, SAE 40 API SF-SJ
Fuel	Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%)	Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%)
Fuel tank capacity	11.4 gallon / 43.2 liters	11.4 gallon / 43.2 liters
Spark plugs / gap	Champion RC12YC .030" / 0.75 mm	Champion RCJ8Y .030" / 0.75 mm
Cooling	Air cooled	Air cooled
Air filter	Heavy duty canister	Standard
Alternator	12V 15A	12V 15A
Starter	Electric	Electric
Transmission		
Transmission	Dual pumps, wheel drive motors	Dual pumps, wheel drive motors
Speed and direction controls	Dual levers, foam gripped	Dual levers, foam gripped
Speed forward	0-9.5 mph / 15.3 km/h	0-9.5 mph / 15.3 km/h
Speed reverse	0-5 mph / 0-8 km/h	0-5 mph / 0-8 km/h
Brakes	Mechanical parking brake	Mechanical parking brake
Front caster tires, smooth tread	13 x 5.0-6, 4 ply	13 x 5.0-6, 4 ply
Rear tires, turf pneumatic	23 x 10.5-12 4 ply	23 x 8.5-12 4 ply
Tire pressure, front and rear	15 PSI / 103 kPa / 1 bar	15 PSI / 103 kPa / 1 bar

TECHNICAL DATA

	ZMKH61252	ZMKW48172
Cutting Width	61" / 155 cm	48" / 122 cm
Cutting Height	1.5 - 5" / 3.8 - 12.7 cm	1.5 - 5" / 3.8 - 12.7 cm
Uncut Circle	0	0
Number of Blades	3	3
Blade Length	21" / 53 cm	16¼" / 41 cm
Anti=Scalp Rollers	6 adjustable	3 adjustable
Sprung Seat	Standard Hi-back	Standard Hi-back
Hinged Arm Rests	Yes	Yes
Hour Meter	Digital with service intervals	Digital with service intervals
Blade Engagement	200 ft/lb Warner	125 ft/lb Warner
Deck Construction	7 gauge tunnel and sides	7 gauge tunnel and sides
Productivity		
Productivity	4.9 acres /h 19845 m2/h	3.8 acres /h 15405 m2/h
Overall Dimensions		
Weight	920 lbs / 418 kg	870 lbs / 395 kg
Base Machine Length	78½" / 200 cm	76" / 193 cm
Base Machine Width	51½" / 131 cm	47" / 119 cm
Base Machine Height	42½" / 108cm	42" / 107 cm
Overall Width, Chute Up	62" / 158 cm	49" / 125 cm
Overall Width, Chute Down	74" / 188 cm	61" / 155 cm

TECHNICAL DATA

Engine	ZMKW48192	
Manufacturer	Kawasaki	
Type	FH541V	
Power	19hp* / 14.2kW	
Lubrication	Pressure with oil filter	
Oil capacity excluding filter	1.6 qt / 1.7 liters	
Oil capacity including filter	1.8 qt / 1.9 liters	
Engine oil (See viscosity diagram)	SAE 10W30, 10W40, SAE 30, SAE 40 API SF-SJ	
Fuel	Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%)	
Fuel tank capacity	11.4 gallon / 43.2 liters	
Spark plugs / gap	Champion RCJ8Y .030" / 0.75 mm	
Cooling	Air cooled	
Air filter	Standard	
Alternator	12V 15A	
Starter	Electric	
Transmission		
Transmission	Dual pumps, wheel drive motors	
Speed and direction controls	Dual levers, foam gripped	
Speed forward	0-9.5 mph / 15.3 km/h	
Speed reverse	0-5 mph / 0-8 km/h	
Brakes	Mechanical parking brake	
Front caster tires, smooth tread	13 x 5.0-6, 4 ply	
Rear tires, turf pneumatic	23 x 8.5-12 Tubeless	
Tire pressure, front and rear	15 PSI / 103 kPa / 1 bar	

TECHNICAL DATA

	ZMKW48192	
Cutting Width	48" / 122 cm	
Cutting Height	1.5 - 5" / 3.8 - 12.7 cm	
Uncut Circle	0	
Number of Blades	3	
Blade Length	16¼" / 41 cm	
Anti=Scalp Rollers	3 adjustable	
Sprung Seat	Standard Hi-back	
Hinged Arm Rests	Yes	
Hour Meter	Digital with service intervals	
Blade Engagement	125 ft/lb Warner	
Deck Construction	7 gauge tunnel and sides	
Productivity		
Productivity	3.8 acres /h 15405 m2/h	
Overall Dimensions		
Weight	870 lbs / 395 kg	
Base Machine Length	76" / 193 cm	
Base Machine Width	47" / 119 cm	
Base Machine Height	42" / 107 cm	
Overall Width, Chute Up	49" / 125 cm	
Overall Width, Chute Down	61" / 155 cm	

TECHNICAL DATA

Accessories

BioClip attachment (Mulch clip)

Front Baffle Kit

Foot-operated Mower Deck Lift

Head lights

Rollover Protection System

(ROPS with seat belt)

Accessory for EC models only

Standard on US models

Collection system

Torque Specifications

- Engine crankshaft bolt 50 ft/lb (67 Nm)
- Deck pulley bolts 45 ft/lb (61 Nm)
- Lug nuts 75 ft/lb (100 Nm)
- Blade bolt 27-35 ft/lb (35-45 Nm)
- Standard 1/4" fasteners 9 ft/lb (12 Nm)
- Standard 5/16" fasteners 18 ft/lb (25 Nm)
- Standard 3/8" fasteners 33 ft/lb (44 Nm)
- Standard 7/16" fasteners 52 ft/lb (70 Nm)
- Standard 1/2" fasteners 80 ft/lb (110 Nm)

When this product is worn out and no longer used, it shall be returned to the reseller or other party for recycling.

In order to implement improvements, specifications and designs can be altered without prior notification.

Note that no legal demands can be placed based on the information contained in these instructions.

Use only original parts for repairs. The use of other parts voids the warranty.

Do not modify or install nonstandard equipment to the unit without consent from the manufacturer. Modifications to the unit may cause unsafe operation or damage the unit.

SERVICE JOURNAL

Action	Date, mtr reading, stamp, sign
Delivery Service	
1. Charge the battery.	<input type="checkbox"/>
2. Mount the rear wheels.	<input type="checkbox"/>
3. Adjust the tire pressure of all wheels to 15 PSI (1 bar).	<input type="checkbox"/>
4. Mount the steering controls in the normal position.	<input type="checkbox"/>
5. Connect the seat fold-up stop.	
6. Connect the cable for the seat's safety switch.	<input type="checkbox"/>
7. Mount the arm rests on the seat back support.	<input type="checkbox"/>
8. Check the oil in the engine.	<input type="checkbox"/>
9. Check the oil in the hydraulic tank.	<input type="checkbox"/>
10. Adjust the position of the steering controls.	<input type="checkbox"/>
11. Fill with fuel and open the fuel shut off valve.	<input type="checkbox"/>
12. Check the machine for transport damage.	<input type="checkbox"/>
13. Start the engine.	
14. Check that there is drive to both wheels. Bleed if necessary.	<input type="checkbox"/>
15. Check the mower deck adjustment.	<input type="checkbox"/>
16. Check:	<input type="checkbox"/>
The safety switch for the parking brake.	<input type="checkbox"/>
The safety switch for the mower deck.	<input type="checkbox"/>
The safety switch in the seat.	<input type="checkbox"/>
The safety switch in the steering controls.	<input type="checkbox"/>
Parking brake functionality.	<input type="checkbox"/>
Driving forward.	<input type="checkbox"/>
Driving backward.	<input type="checkbox"/>
Engaging the blades.	<input type="checkbox"/>
17. Check the idle speed.	Delivery service has been carried out.
18. Check the engine high idle speed	No remaining notes.
19. Inform the customer about:	Certified:
The need and advantages of following the service schedule.	
The need and advantages of leaving the machine for service every 300 hours.	
The effects of service and maintaining a service journal on the machine's resale value.	
Application areas for mulching.	
20. Fill in the sales papers, etc.	

SERVICE JOURNAL

Action	Date, mtr reading, stamp, sign
After the First 5-8 Hours 1. Change engine oil.	<input type="checkbox"/>

Action	Date, mtr reading, stamp, sign
25-Hour Service <ol style="list-style-type: none">1. Check the fuel pump's air filter.2. Check the hydraulic system's oil level.3. Check the tire pressures.4. Check battery with cables.5. Lubricate according to lubrication chart.6. Check/clean the engine's cooling air intake.7. Clean the air cleaner's prefilter (foam).	

Action	Date, mtr reading, stamp, sign
<p>50-Hour Service</p> <ol style="list-style-type: none"> 1. Perform the 25-hour service. 2. Lubricate the front wheel bearings. 3. Lubricate the steering control shaft. 4. Lubricate the mower deck struts. 5. Lubricate the cutting height adjuster. 6. Check/adjust the parking brake. 	

SERVICE JOURNAL

Action	Date, mtr reading, stamp, sign
100-Hour Service <ol style="list-style-type: none"> 1. Perform the 25-hour service. 2. Perform the 50-hour service. 3. Change the engine oil. 4. Check whether the hydraulic oil needs changing (every 300 hours) 5. Check whether the engine oil filter needs changing (every 200 hours) 6. Clean/replace the spark plugs. 7. Replace the fuel filter. 8. Clean the cooling fins on the engine and transmission. 9. Check V-belts. 10. Check, tighten caster wheel axle bolts (every 200 hours). 11. Clean and check the air filter's paper cartridge. 12. Replace the man filter cartridge. (every 200 hours) 13. Clean fins of oil cooler (Kohler) 	

SERVICE JOURNAL

Action	Date, mtr reading, stamp, sign
300-Hour Service <ol style="list-style-type: none">1. Inspect the machine. Come to agreement with the customer as to which additional work is to be carried out.2. Perform the 25-hour service.3. Perform the 50-hour service.4. Perform the 100-hour service.5. Change the oil and filter in the hydraulic system.6. Clean the combustion chamber and grind the valve seats.7. Check the engine valve clearance.8. Dismantle and inspect starter. (500h)	

SERVICE JOURNAL

Action	Date, mtr reading, stamp, sign
At Least Once Each Year <ol style="list-style-type: none">1. Clean the engine's cooling air intake (25 hours).2. Replace the air cleaner's prefilter (oil-foam) (300 hours).3. Replace the air filter's main cartridge.4. Change the engine oil (50 hours).5. Replace the engine oil filter (200 hours).6. Change the oil and filter in the hydraulic system.7. Check/adjust the cutting height.8. Check/adjust the parking brake (50 hours).9. Clean/Change the spark plugs (100 hours).10. Change the fuel filter (100 hours).11. Clean the cooling fins (100 hours).12. Check the engine valve clearance.13. Perform the 300-hour service at an authorized service workshop.	

YAZOO/KEES